



**SVCR GOVERNMENT  
DEGREE COLLEGE**  
PALAMANER-517 408, CHITTOOR (Dist.), A.P.

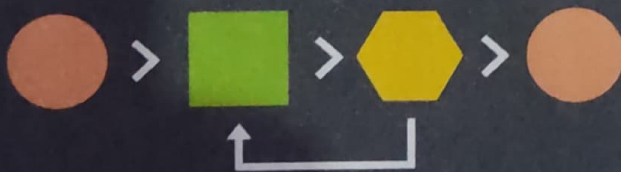
Affiliated to Sri Venkateswara University, Tirupati  
Re-accredited by NAAC with 'B' Grade



**PROGRAM BOOK FOR  
SHORT TERM INTERNSHIP**

**Data Structure**

**ALGORITHMS**



Kamatinaveen464@gmail.com

[COMPANY NAME] INTERNSHALA TRAININGS

PROGRAM BOOK FOR  
**SHORT-TERM INTERNSHIP**  
Virtual

Name of the Student: KAMATI NAVEEN

Name of the College: SVCR GDC PALAMANER

Registration Number: 0321014054

Period of Internship: From: 21-10-22 To: 30-11-22

Name & Address of the Intern Organization

INTERNSHALA TRAININGS  
(ONLINE)

Sri Venkateswara University

YEAR



**An Internship Report on**  
Data Structures & Algorithms

(Title of the Internship)

Submitted in accordance with the requirement for the degree of  
B.Sc (M.P.C.S)

Under the Faculty Guideship of  
M. Surya Sekhar Reddy  
(Name of the Faculty Guide)

Department of B.Sc  
SVCR GOVT DEGREE COLLEGE PALAMANER  
(Name of the College)

Submitted by:  
KAMATI NAVEEN  
(Name of the Student)

Reg.No: 0321014054

Department of B.Sc  
SVCR GOVT DEGREE COLLEGE PALAMANER  
(Name of the College)

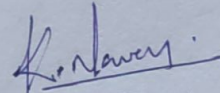
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## Student's Declaration

I, KAMIATI NAVEEN a student of B.SC (M.P.C.S)  
Program, Reg. No. 0321014054 of the Department of MPCS, SVCR Govt degree  
College do hereby declare that I have completed the mandatory internship  
from 21-10-2022 to 30-11-2022 in INTERNSHALA (Name of  
the intern organization) under the Faculty Guideship of  
M. Surya Sekhar Reddy (Name of the Faculty Guide), Department of  
B.SC (M.P.C.S), SVCR GOVT DEGREE COLLEGE  
(Name of the College)




(Signature and Date)

## Official Certification

This is to certify that KAMATI NAVEEN (Name of the student) Reg. No. 08d1014054 has completed his/her Internship in INTERNSHALA (Name of the Intern Organization) on Data Structures & Algorithms (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of B.Sc (M.P.C.S) in the Department of S.V.C.R. Govt. Degree College Palamaner (Name of the College).

This is accepted for evaluation.

  
(Signatory with Date and Seal)  
M. SURYA SEKHAR REDDY  
Asst. Professor In Physics  
S.V.C.R. Govt. Degree College  
Palamaner, Chittoor, (Dt.) A.P  
Pin: 517408

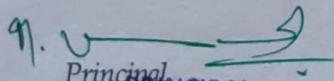
### Endorsements

Faculty Guide



Head of the Department



  
Principal  
PRINCIPAL  
S.V.C.R. GOVT. DEGREE COLLEGE  
PALAMANER, CHITTOOR DT. (A.P.)

M. SURYA SEKHAR REDDY  
Asst. Professor In Physics  
S.V.C.R. Govt. Degree College  
Palamaner, Chittoor, (Dt.) A.P  
Pin: 517408



## Certificate from Intern Organization

This is to certify that KAMATI NAVEEN (Name of the intern)  
Reg. No. 0321014054 of SVCR GDC Palamaner (Name of the  
College) underwent internship in INTERNSHALA (Name of the  
Intern Organization) from 21-10-2022 to 30-11-2022

The overall performance of the intern during his/her internship is found to be

Satisfactory (Satisfactory/Not Satisfactory).

MA \_\_\_\_\_ 15/11  
Authorized Signatory with Date and Seal

# Certificate of Training

## KAMATI NAVEEN

from SVCR GOVERNMENT DEGREE COLLEGE, PALAMANER has successfully completed an 8-week online training on **Data Structures & Algorithms**. The training consisted of Introduction to Data Structures, Introduction to Algorithms, Single & Double Dimensional Arrays, Searching & Sorting, Stacks & Queues, Revision of relevant topics in C, Implementation programs of Stacks & Queues, Linear linked list, Circular linked list, Doubly linked list, Trees, and Graphs modules.

In the final assessment, KAMATI scored 64% marks.  
We wish KAMATI all the best for future endeavours.



Sarvesh Agarwal  
FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-12-14

Certificate no. : fcsqcbzeniwi

For certificate authentication, please visit [https://trainings.internshala.com/verify\\_certificate](https://trainings.internshala.com/verify_certificate)



## Acknowledgements

First I wish to express my sincere gratitude to the principle Dr. M. Venkatesulu Sir for providing me an opportunity to do my internship at SVCR Government Degree College, Palamaner for me it was a unique experience to study and knowing about Internshala trainings. This outernship period was a great chance of learning professional development.

The journey started as a student towards the professional life with the aim in mind to learn the practical aspect of life, ended as a memorable experience. also helped me to come off with flying colours.

No work can be completed without other's help or contribution. The preparation the immense and unlimited help and sound through of innumerable people.



My special thanks to the college faculty and the principal sir for providing me with this opportunity to associate myself with them for my training and also like to express my sincere gratitude to them for providing me the most valuable guidance and affable treatment given to me at every stage.

I express my deep and sincere gratitude to my mentor / teacher M. Surya Sekhar Reddy sir. Lecturer in physics, supervision, expert suggestion and encouragement which helped me to tide over the hardship encountered during study.

Last but not the least my sincere gratitude to all people who knowingly or unknowingly supported me, for as my moral to make the this project a reality.



## CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

After completion of this internship I learned a lot of knowledge. This internship is through online at the platform of 'Internshala trainings'. Such wonderful platform to gain knowledge. My internship is about data structures and algorithms. I get brief knowledge about data structures and algorithms, and I learned its necessity in IT field, and how data can be organized through data structures. I learned skills by giving presentations, communication skills by observing mentors, their structure of training and designings.



The organization 'Internshala Trainings' is the well knowledgeable platform to gain knowledge as well as practical knowledge. We can get placed in jobs too. Internshala has lot of courses and trainings and Internships.

I learned a lot of things while doing my Internship, about technical skills, Softskills, Computer Basics, etc. facts about data. The entire Internship through videos, Quizes and assignments and module tests. every module has module test to unlock the next module.

In the middle of modules there will be or code challenges, and after completion of all modules there is final-test. It is mandatory to score more than 33% score to get Internship Certificate.

I successfully completed my Internship.



## CHAPTER 2: OVERVIEW OF THE ORGANIZATION

### Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission, and Values of the Organization
- C. Policy of the Organization, in relation to the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

### A. Introduction of the Organization

Internshala is a dot com business with the heart of dot org. We are a technology company on a mission to equip students with relevant skills & practical exposure to help them get the best possible start to their careers. Imagine a world full of freedom and possibilities.

Internshala is an internship and online training platform, based in Gurgaon India. Founded by Sarvesh Agrawal, an IIT Madras alumnus, in 2011, the website helps students find internships with organisations in India.



## B. Vision, Mission, and values of the organization:

Internshala is a dot com business with the heart of dot org.

We are a technology company on a mission to equip students with relevant skills & practical exposure to help them get the best possible start to their careers. A world where you can discover your passion and turn it into your career. A world where you graduate fully assured, confident, and prepared to stake a claim on your place in the world.

## C. Internshala milestones.

2010 How it all started, Sarvech, our founder & CEO, started Internshala as a blog with a mission to bring a culture of meaningful internships in India. 2013 The website launch after building a small team, we then launched our website. 2015 Internshala app launch, the next big step could not have been anything other than launching our very own Android app, 2016 The beginning of Internshala Trainings. 2020 when we launched fresher jobs, with fresher jobs, we embarked on a journey filled with newer challenges, 2021, The launch of job oriented specializations. These are the wonderful milestones in Internshala.



## Products & Services :-

1. Internship and job posting: Organization of individual looking to hire interns and/or full-time employees can post their internship and/or job requirements on Internshala.
2. Internship and job search :- Internship and job seekers from all over India can search and apply for internships and jobs relevant to their course work and interest free of cost.
3. Internshala Trainings: Internshala offers a variety of online training programs across multiple disciplines (Machine learning, web development, Digital marketing, java, french and several others)

## Culture of Internshala:

The culture of Internshala is in these tenets define who are they and what they do.

1. Have fun at what you do
2. Make it happen
3. Be jugaadu (resourceful) & Kanjos (frugal)
4. Dream big
5. Relentless pursuit of excellence
6. Do the right thing
7. Users at the heart of everything we do
8. seek and give feedback
9. keep it simple
10. on time everytime
11. Cleanliness is Godliness

## Estimated Revenue & valuation

- o Internshala's estimated annual revenue is currently \$640.4 m per year.
- o Internshala's estimated revenue per employee is \$98,000

## Employee data

- o Internshala has 6585 employees
- o Internshala grew their employee count by 1% last year.

About organization:



The information about INTERNSHALA TRAININGS company as follows in given links:

ABOUT INTERN SHALA

[https://internshala.com/about\\_us](https://internshala.com/about_us)

CAREERS IN INTERNSHALA;

<https://internshala.com/careers>

CULTURE OF INTERNSHALA;

<https://internshala.com/culture>

THE HOME PAGE OF INTERNSHALA WEBSITE;

<https://internshala.com/culture>



### CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship, which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

The whole Internship is fullpledged learning journey. I learned a lot. The working schedule is very flexible. Every day one hour classes.

every completion of module there is a module test and it is mandatory to unlock the next module.

In the middle of module there will be quizzes. we have to write weekly report. I used to watch recorded sessions the laptop. to run the

programmes I used Dev c++.

running platform. and I used sometimes my mobile too.

while seeing all sessions I note the all the notes.

The whole syllabus mentioned in the next page.

I learned how to use data structures in real-time problems.

I learned some technical skills, and soft skills too.

The structure of Internship is systematic.

The environment is teamwork Base. responsibility.

— X —



# SYLLABUS

## 1. INTRODUCTION TO DATA STRUCTURES

- 1.1 understanding data structures
- 1.2 brief overview of linear data structures
- 1.3 brief over view of nonlinear data structures
- 1.4 basics of momery

## 2. INTRODUCTION TO ALGORITHMS

- 2.1 basics of algorithms
- 2.2 learning constructs
- 2.3 algorithms using arrays
- 2.4 complexity analysis
- 2.5 module test

## 3. SINGLE&DOUBLE DIMENSIONAL ARRAYS

- 3.1 introduction to structure of c programs
- 3.2 1-D Arrays
- 3.3 2-D Arrays
- 3.4 advance manipulation of 2-D arrays
- 3.5 module test

## 4. Searching & Sorting

- 4.1 searching
- 4.2 sorting
- 4.3 module test

## 5. STACKS & QUEUES:

- 5.1 fundamentals of stacks
- 5.2 algorithmms of stacks
- 5.3 fundamentals of queues
- 5.4 algorithms of queues
- 5.5 module test

## 6 . RIVISION OF RELEVANT TOPICS IN C

- 6.1 revising pointers
- 6.2 revising functions
- 6.3 revising structures in C
- 6.4 module test

## **7. IMPLEMENTATION PROGRAMS OF STACKS & QUEUES:**

- 7.1 implementation of stacks
- 7.2 implementation of queues

## **8. LINEAR LINKED LIST**

- 8.1 basics of linear linked list
- 8.2 insertion in linear linked list
- 8.3 deletion in linear linked list
- 8.4 creation ,insertion and searching
- 8.5 deletion problems
- 8.6 module test

## **9. CIRCULAR LINKED LIST:**

- 9.1 traversal and insertion
- 9.2 deletion
- 9.3 problems of creation, traversal and insertion
- 9.4 deletion problems
- 9.5 module test

## **10. DOUBLY LINKED LIST:**

- 10.1 basics, traversal and insertion
- 10.2 deletion in a doubly linked list
- 10.3 problems of creation traversal and insertions
- 10.4 problems of deletion
- 10.5 module test



## 11. TREES

11.1 basics of tree

11.2 traversals of a binary tree-explanation and algorithms

11.3 binary search tree

11.4 heap

11.5 height balanced trees (avl trees)

11.6 module test

## 12. GRAPHS:

12.1 introductions to graphs

12.2 graphs in memory

12.3 introduction to maps& hashing

12.4 future aspects of data structure & algorithms

12.5 module test

## 13 FINAL TEST

ACTIVITY LOG FOR THE FIRST WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	Introduction to syllabus of training 12 Modules and -All about Certification	How an organization Run Certificate Course.	HG
Day - 2	overview of Data structures. Through videos. Quiz, Module test	about array (1D, 2D) stacks, Trees, Graphs, Queues Linked lists	HG
Day - 3	Introduction to Algorithms, learning videos, Quizzes.	Briefly about algorithms, Complexity Analysis	HG
Day - 4	Selection Construct through videos, and Quize and Module Test	looping statements examples for algorithms.	HG
Day - 5	This module is all through Dev C++ To execute Source Codes. Learning videos.	structure of C program. 1D - arrays 2-D - arrays	HG
Day - 6	Execution of all Source codes of all 2-D arrays.	Matrix addition execution of programmes	HG



## WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Successfully Completed the first week of training. It was amazing classes. fruitful classes. Quality information and quality of videos are useful to learn. Concepts explained by mentors as such a wonderful experience. I had learned a lot of things in first session that is full detailed explanation about course and advantages of this course, and features of this training are clearly explained. Mentors presentation is awesome through all real world examples. And I learned how to communicate effectively.

when coming to next sessions the concepts are started. In this week I completed two modules, module 1:

Introduction to Data structures and

module 2: Introduction to Algorithms.

These two modules are through quality videos and Quality content, and real time examples. In the middle of the modules there are quizzes also to check our knowledge.

at the every end of module there was a module test.

module test contain objective type questions, and another coding related questions.

At the end of these two modules I got full idea about Data structures and its types and algorithms and its types and uses also.

finally it creates full of excitement to learn through next-modules, ....



ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	learning videos about functions, Downloading and installing Dev c++	I observed how to install softwares in laptop.	HG
Day - 2	watching videos, Quizzes and writing Module tests.	I Learned Single & Double Dimensional Arrays.	HG
Day - 3	Today watching concepts video & execution of programs through Dev c++	I Learned about sorting and searching	HG
Day - 4	Completion of all concepts videos and Quizzes and Module Test	Searching and Sorting algorithms with examples.	HG
Day - 5	Started new module. watching concepts videos, Quizzes execution of programs	Brief info about stacks and Queues with real time examples.	HG
Day - 6	watching Concepts through videos, Quizzes and Module test.	all information about operations in Queues and stacks.	HG

## WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Successfully Completed second week of Training. Continuing these videos classes and quizzes and module test gives different feeling. In this week classes are awesome to learn. classes are nice with real time examples. Colourfull presentations. after every topic in an module there was Quiz. This is usefull to check my knowledge. and also code challenges. In this second week I Completed two modules.

module 3 : Single & Double Dimensional arrays.

module 4 : Searching & Sorting.

In the first module 3 the following concepts are explained by mentors.

- Introduction to structure of C programs
- 1-D arrays
- 2-D arrays
- Advance Manipulation of 2-D arrays
- Structure of C IDE's.



after all of this concepts there was a 'Internshala Student Referral program' This is about "REFER A FRIEND & LEARN TWO-GETHER"

It contains

- Earn a Cash incentive for each
- Your friends get an extra 10% off
- To unlock additional special rewards.

This was interesting thing in the middle of the module.

after this Mentors explained how to install Dev c++ in laptop. I Successfully installed Dev c++ in my laptop.

after Completion of module 3, module 4 is opened to continue.

module 4 contains the following concepts.

- Linear search - Basics of algorithm
- Binary search
- Code challenge for Both linear search and Binary search
- Bubble sort, and its algorithm
- Selection sort, and its algorithm.
- Code challenge for Both Bubble sort and selection sort

And end of this week I completed module tests ....

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	learning, videos Quizes, assignments. watching webinars.	Basics of stacks Algorithm for pushing an stack element into a	MJ
Day -2	practicing codes, programming codes on stacks and Queues	Algorithm for Popping an element from a stack.	MJ
Day -3	learning through videos, Quizes assignments.	Basics of Queue, Algorithms inserting, deleting.	MJ
Day -4	learning through recorded videos, Quizes regarding topics.	Revision of - relavant topics in C. Basics in pointers	MJ
Day -5	Module Tests on relavant topics Quizes on subtopics.	pointer to pointer Arrays and Pointers.	MJ
Day -6	watching videos, attempting quizes Module tests.	linked list Basics of function Components of function	MJ.



## WEEKLY REPORT

WEEK - 3 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:


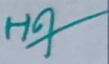

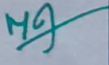
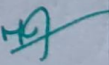
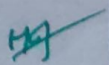
In this week I learned the concepts about stacks & Queue and Revision of relevant topics i.e. I completed Module 5 and module 6. I learned effectively through quality videos and quizzes and at end of module to test the knowledge module test.

In the 5th module about fundamentals of stacks. Briefly explained through real time examples, and algorithms of stacks, and after that fundamentals of Queue with real time examples, after that algorithms of Queue and its uses in real time problems. In middle of all the topics Quizes and at the end of this module there will be module test. Completed module 5. stacks & Queues.

-After Module 5 started module 6 i.e; Revision of relevant topics in 'C'. In that first topic is Basics of pointers. I learned about what is Basics pointer variable? Uses of pointers. Syntax to declare pointer variable. and pointers in action. at the end of every topic checked my knowledge through Quizes. and about pointer to pointer. and what is Subtracting two pointer variables. and all about Arrays and pointers. Newly learned about Dynamic memory allocation and its uses. what is memory allocation. explanation of pointers is awesome. and execution programmes are really nice through Dev c++. after this learned about Basics of function. and types of functions and Components of function. developing functions. Scope of variables, Name of closing of local variables and global variables. facts about return statement in functions, and Basics of structures and creating a structure and accessing members. finally alternate methode of declaration of structure. -this is Brief report on third week.



### ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Implementation of Programs through dev c++. Quizes and videos.	Array representation of stacks Linear linked list	
Day -2	learning videos, code explanation by mentor, Quizes.	Algorithm to traverse the node of a linear linked list	
Day -3	programme execution Quizes, videos and finally Module test.	Algorithm to insert a new node in the beginning.	
Day -4	learning recorded videos, assignments Quizes, webinars.	Linear linked list Algorithms in linked list	
Day -5	programmes execution recorded videos assignments Quizes.	Searching a particular node in a linear linked list	
Day -6	programmes discussion and finally module test.	Deleting the first node and last node in linked list.	

## WEEKLY REPORT

WEEK - 4 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

In this week completed the two modules module 7 and module 8. i.e., Implementation programmes of stacks and queues, and about linear linked list. In this week all programming codes are executed through Dev C++. Implementation of stacks with real time problems, and examples. I had brief explanation about stacks, after that implementation of queues. Array representation of stacks and about linear linked list. Algorithms to traverse the nodes of a linear linked list. Algorithm to insert a new node in the beginning, and algorithm to insert a new node before a given node. Searching a particular node in a linear linked list. Inserting a new node before a given node, and execution of programmes. Inserting a new node at the end of a linear linked list and deletion processes. This is report of week.



ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day -1	Watching recorded videos, after completion of every topic, Quizes.	Traversing a Circular linked list.	MJ
Day -2	Watching recorded videos, programmes execution Quizes assignments.	Insertion operations in circular linked list.	MJ
Day -3	Watching recorded videos, Quizes assignments, Module test.	Deletion operations in a particular places.	MJ
Day -4	Watching recorded videos, Quizes, assignments.	Basics of Doubly linked list.	MJ
Day -5	Watching recorded videos, Quizes assignments or webinars	Creation of a doubly linked list.	MJ
Day -6	Learning through videos, assignments webinars.	deletions in doubly linked list.	MJ

## WEEKLY REPORT

WEEK - 5 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

In this week I learned about two linked lists, i.e.; circular linked list and doubly linked list, and how to traverse a circular linked list. Inserting a new node in the beginning, deletion operations in circular linked list i.e.; deleting first node, deleting particular node, creation and traversal of a circular linked list. attempting code challenges gives more knowledge. and these are the topics in the 9th module i.e.; circular linked list. after this next module is about doubly linked list. In this I learned about basics and algorithms to traverse doubly linked list and inserting a new node before a node with a given address.



The mentor explaining with brief information through nice presentation i.e; PPTs. after that deletion operations in doubly linked lists. i.e; deletion in a doubly linked list. problems of creation Traversal and Insertion. i.e; Traversing doubly linked list in both directions. Inserting a new node in the beginning. Inserting a new node before a given node and Inserting a new node after given node. and after that problems on deletion. deleting the first node in a doubly linked list. Mentor would explained about programmes and executed through Devc++.

and last topic in this module is deleting the particular node in doubly linked list. After all the topics I attempted the module test.

### ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1	watching recorded sessions, taking notes. Quizes. assignments.	Basics of trees. representation of Binary tree	mg
Day - 2	watching recorded sessions, taking notes, Quizes, assignments.	Height of a Binary tree	mg
Day - 3	watching recorded sessions, Quizes module tests.	traversal of trees, pre-order, In-order, post-order	mg
Day - 4	watching recorded sessions, taking Quizes, assignments	Basics of Graphs Graphs in memory	mg
Day - 5	attended webinars, video & learning programme execution	Maps, Hashing,	mg
Day - 6	Quizes, module test.	Linked representation of graphs.	mg



## WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

In this last week I learned about trees and graphs. These are nonlinear data structures. First I covered all Basics of Tree and Binary trees and two representations of Binary trees in memory - Array representation of Binary tree. After that height of a Binary tree. Traversal of trees in the forms of pre-order traversal of Binary trees In-order traversal - post order traversal after that through Algorithms of pre-order traversal, In order, post order traversals. and learned about Binary Search tree. concept of HEAP rising, sinking. What is height of Binary tree these are the topics I learned in module 11 (trees).

In the last module It's all about Graphs.  
I learned from the Basics. with real  
time examples. Graphs are non linear  
data structure. types of graphs and  
Graphs in memory -ie; Representation  
through adjacent Matrix. Linked  
representation of a graph. after this  
Introduction to maps and -hashing  
what are hashing functions.?

These are all the topics I learned  
in this module. after all the modules  
there is a special session on  
'Career opportunities'

like Software developer, software architect  
Software engineer, Software analyst

finally module test  
after that final test.



## CHAPTER 5: OUTCOMES DESCRIPTION

Describe the work environment you have experienced (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

The work environment which I had experienced is just awesome and fruitful. The Internship is through online every work through online. Quality of learning videos are excellent.

Interaction with mentor gives a lot of knowledge and Inspiring classes.

They clearly explained after completion this Internship what is the job role and this Internship useful to job.

The procedure of Internship is very systematic. Internship contains 12 Modules. Each and every Module contain recorded sessions and Quizes and at the end of every Module there will be Module test. It is Mandatory to unlock to next module. In the Middle of module there will be Code Challenges.

The Mentors clearly explain about job opportunities and also job roles. The entire procedure of Internshala is very systematic and resourceful. The faculty follow time to time classes. The presentation of topics are effective and resourceful. They provide reference Pdf to refer all coding exercises. The network of Internshala is high to improve knowledge. The teamwork of faculty is awesome. They give motivation to go for higher places in IT field. The Interface of Internshala and Internshala apps are resourceful.

— X —



Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

While doing this Internship I had learned usefull technical skill which are usefull to my career. i.e; job related skills. They give Brief idea about softwares, which softwares are usefull. That is Dev c++ To run codes in 'C'. The Internship is about Datastructures and algorithms They explained Importance of data how to organize the data.

I learned data manipulation tools. i.e; how to display data effectively. and about excell. and tablu.

And how to present our work. effectively. i.e; PPTs. need of typing.

\_\_\_\_\_ X \_\_\_\_\_

Describe the managerial skills you have acquired (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.)

while doing and completion of this Internship I learned these managerial skills. How to plan to delivery some information . .

leadership i.e; how to lead team  
How to win through leadership.

I learned positive behaviour through mentors. How to deal work pressure

How to submit work in-time that is productiveness in work..

How work continuously without strain.

I improved weekly by module tests.

They gave Brief idea about goal setting

How to set goal. And how to work

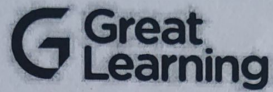
on that. And after that I get awareness about decision making

through the mentors. Communication

skills. when I analyse the my performance I feel proud.

finally this Internship is used a lot.





# CERTIFICATE OF COMPLETION

Presented to

**Naveen Kumar**

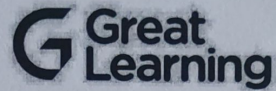
For successfully completing a free online course  
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# CERTIFICATE OF COMPLETION

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**KAMATI NAVEEN**

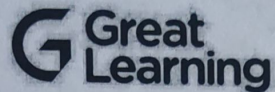
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(On November 2022)

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.,)

I improve My Communication skills through recorded sessions. By observing teaching style of Mentors. ie; oral communication, and attended different webinars can improve My Communication skills.

By guidance of Internshala Mentors I did small courses "Smart English Basics for professionals" I learned how to talk professionally By observing course mentors. I learned written communication skills too. By observing the content presentation. I improved my ability of conversational.

Improved My Confidence level By interacting with mentors.

I improved My understanding abilities of others.

I learned how to talk fluently.

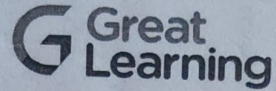


While doing course on Smart English Basics professionals I learned how to talk with professionals, and the etiquette of IT field what is most important thing to survive in IT field:

I could improve my Communication Skills by some of the following ways.

- ① be clear and concise
- ② avoiding unnecessary words
- ③ preparing a head of time
- ④ properly choose the conversation
- ⑤ writing things before speaking

~~X~~



# CERTIFICATE OF COMPLETION

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Smart English Basics for Professionals

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Great Learning Academy

(On December 2022)



Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

While doing Internships group discussions helps me a lot to learn Interaction in Group discussion and Interacting with people. Using time wisely

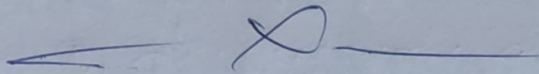
Happy work culture is the need of the hour and it is a combination of teams working effectively and having stronger collaboration skills.

I got plenty of opportunities to participate in group discussions and other team activities in the company.

The following are some tips I followed to enhance my ability.

- ① Knowing the goal at hand.
- ② ignore the negativity and habit of Complaining
- ③ using the time wisely
- ④ actively listening others.

- ⑤ Using team members name  
Making eye contact.
- ⑥ Being reliable and completing the tasks  
Stickness to dead lines.
- ⑦ properly closing the conversation.
- ⑧ honesty and transparency
- ⑨ Active awareness - aware of the  
team dynamics at all times.
- ⑩ practice and improve the skillset.





Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

After completion of this Internship I observed a lot of things about data. How data can display or how data can organize. How data can transform into information. How differently data can be classified. How data improved. The value of data science.

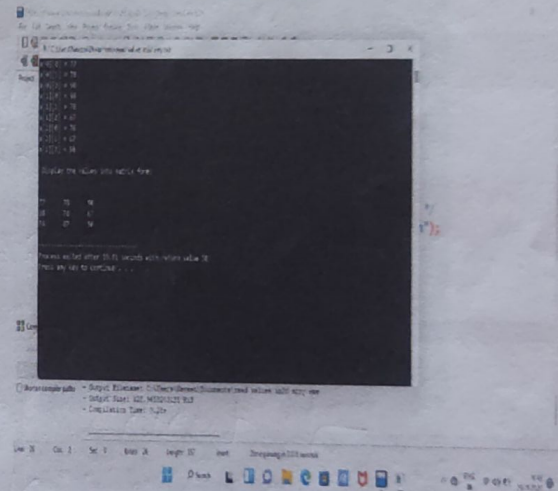
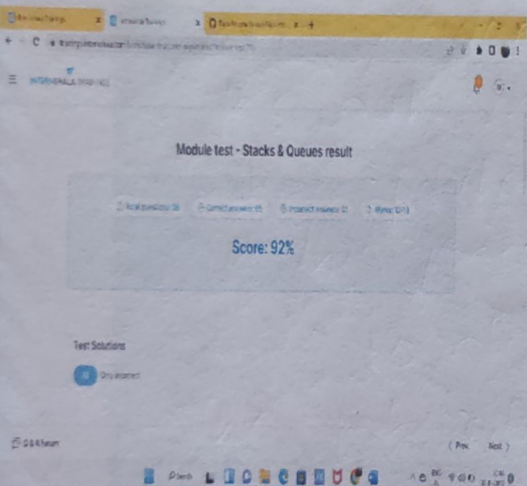
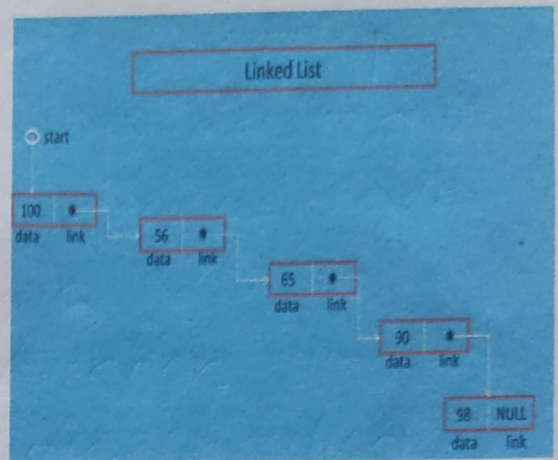
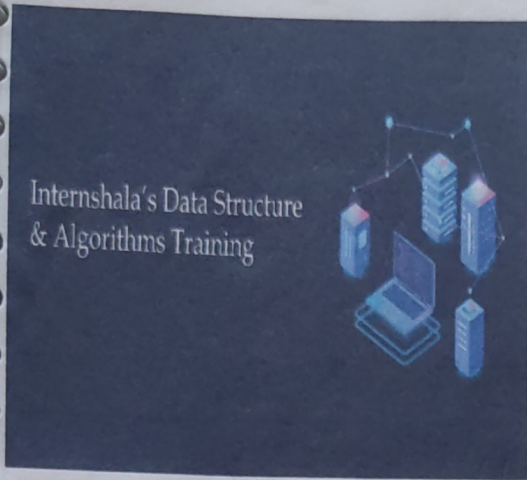
The data mining data analyst. How updated softwares are coming in this generation. The different tools to display the data.

The job role of data scientist is crucial in any company. Data is everywhere everything is about data.

Organizing data is important.

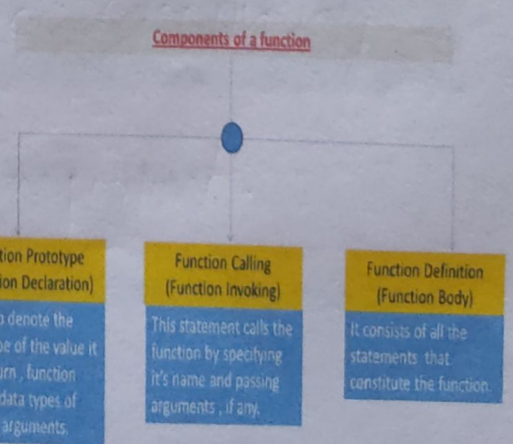


# PHOTOS & VIDEO LINKS

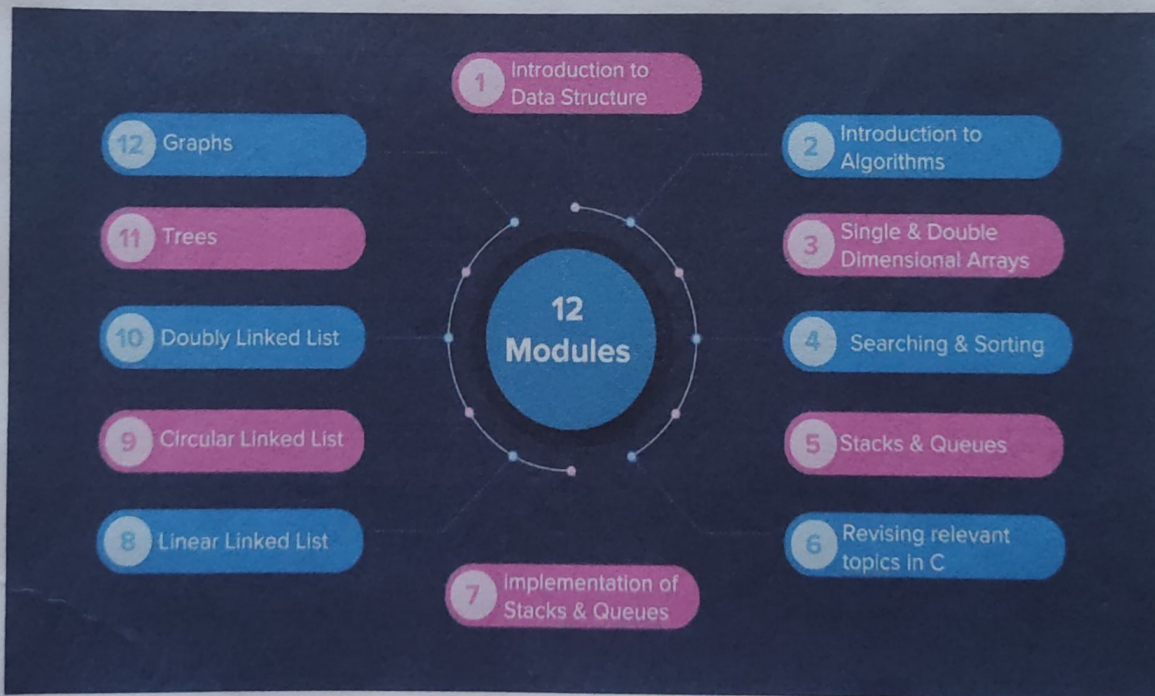
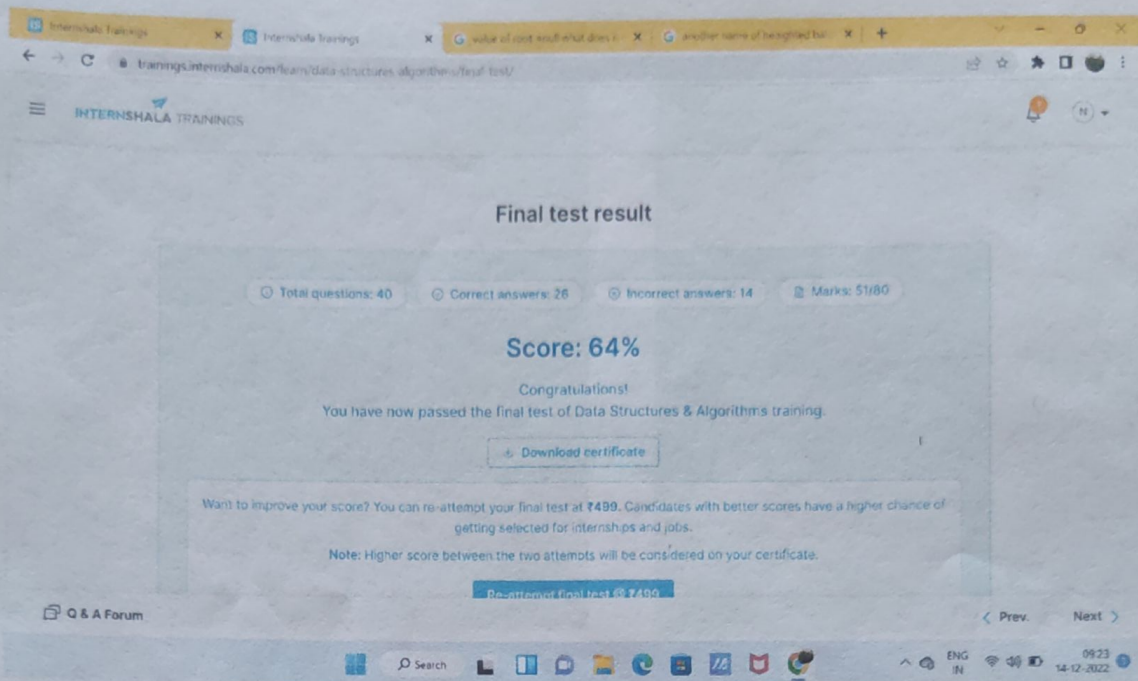


```

1 /* A program using * 'value at address' or Dereference operator
2 or indirection operator */
3
4 #include <stdio.h>
5 int main()
6 {
7     int a=100,*ip;
8     float b=90000.00,*dp;
9     ip=&a; // assigning address of a into ip
10    dp=&b; // assigning address of b into dp
11    printf("value of a = %d\n",*ip);
12    printf("value of b = %.2f\n",*dp);
13 }
14
15
    
```



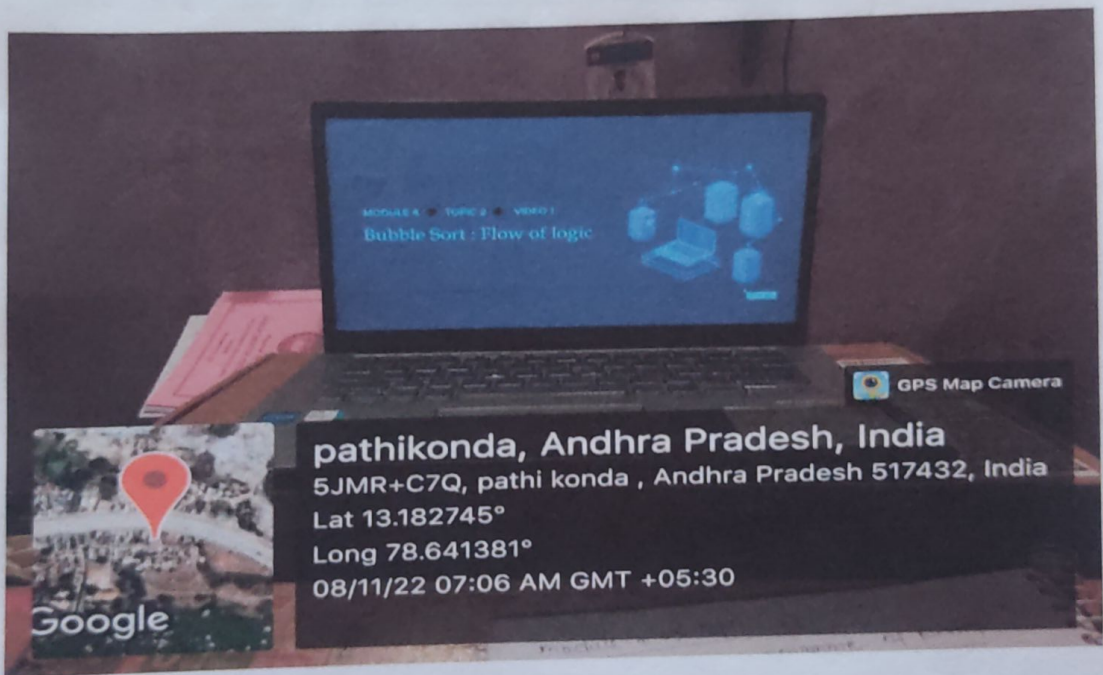
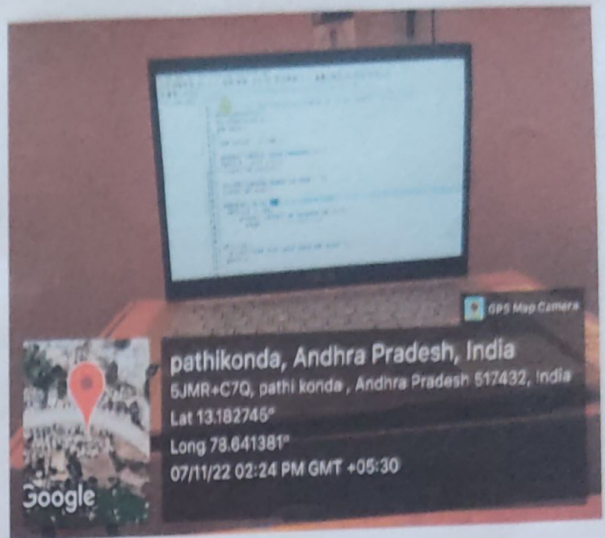
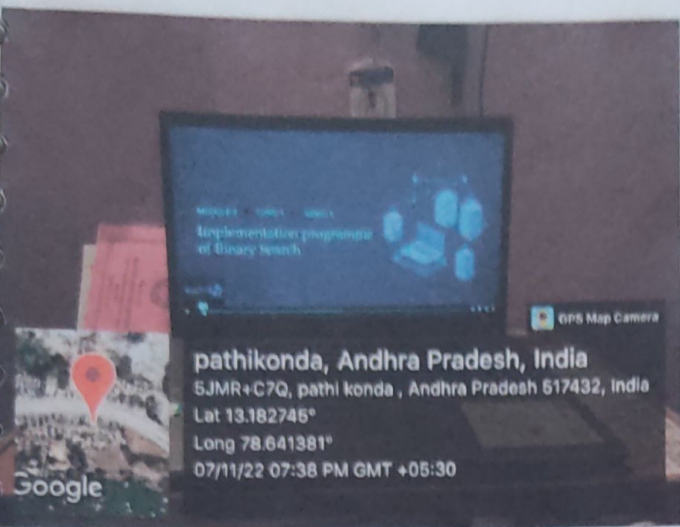




THE FOLLOWING LINK CONTAIN ALL SCREEN SHOTS WHILE DOING INTERNSHIP:

[https://drive.google.com/file/d/1wNID3YzRgwzHuHtQ8nyJ7mu5p99xVnE/view?usp=share\\_link](https://drive.google.com/file/d/1wNID3YzRgwzHuHtQ8nyJ7mu5p99xVnE/view?usp=share_link)

JIO TAGGED PHOTOS WHILE DOING INTERNSHIP



TOTAL JIO TAGS PHOTOS FILE LINK IS MENTIONAD BELOW

[https://drive.google.com/file/d/14i96sITArplzypJVXGhvcCKW7XUPooFk/view?usp=share\\_link](https://drive.google.com/file/d/14i96sITArplzypJVXGhvcCKW7XUPooFk/view?usp=share_link)



TOTAL JIO TAGS PHOTOS FILE LINK IS MENTIONAD BELOW

[https://drive.google.com/file/d/14i96sITArplzypJVXGhvcCKW7XUPooFk/view?usp=share link](https://drive.google.com/file/d/14i96sITArplzypJVXGhvcCKW7XUPooFk/view?usp=share_link)

EXCUTION OF SOURCE CODE IN THE PERIOD OF INTERNSHIP:

1.

[https://docs.google.com/document/d/1HMGyraURhdj10vgVaFiFZ2PXNmSKXh6d/edit?usp=share link&oid=113829153955560062017&rtpof=true&sd=true](https://docs.google.com/document/d/1HMGyraURhdj10vgVaFiFZ2PXNmSKXh6d/edit?usp=share_link&oid=113829153955560062017&rtpof=true&sd=true)

2

[https://docs.google.com/document/d/1\\_d2jCtYFCmne9Oo7tPsZykPr6BsQAaU9/edit?usp=share link&oid=113829153955560062017&rtpof=true&sd=true](https://docs.google.com/document/d/1_d2jCtYFCmne9Oo7tPsZykPr6BsQAaU9/edit?usp=share_link&oid=113829153955560062017&rtpof=true&sd=true)

REFERENCES USED TO LEARN ANOTHER SKILLS

[https://www.mygreatlearning.com/great-lakes-pgpdbsba?utm\\_source=google&utm\\_medium=search&utm\\_campaign=DSBA Exact Brand Greatlearning Search&adgroup\\_id=66854885937&campaign\\_id=1764312617&keyword=great%20learning%20online%20courses&placement=&ad\\_id=342276166065&gclid=Cj0KCQiA4uCcBhDdARIsAH5jyUmKM1\\_oV45XbofmWBHO3b7JU8wVBy-KvWX\\_I9O2T7797zBDBJI6twaAt-5EALw\\_wcB](https://www.mygreatlearning.com/great-lakes-pgpdbsba?utm_source=google&utm_medium=search&utm_campaign=DSBA_Exact_Brand_Greatlearning_Search&adgroup_id=66854885937&campaign_id=1764312617&keyword=great%20learning%20online%20courses&placement=&ad_id=342276166065&gclid=Cj0KCQiA4uCcBhDdARIsAH5jyUmKM1_oV45XbofmWBHO3b7JU8wVBy-KvWX_I9O2T7797zBDBJI6twaAt-5EALw_wcB)

<https://www.learnvern.com/>



**MARKS STATEMENT**  
**(To be used by the Examiners)**

## Student Self Evaluation of the Short-Term Internship

Student Name: KAMATI NAVEEN Registration No: 0321014054

Term of Internship: 2 Months From: 21-10-2022 To: 31-11-2022

Date of Evaluation:

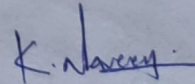
Organization Name & Address: INTERNSHALA TRAININGS

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date: 05-12-2022

  
Signature of the Student



### Evaluation by the Supervisor of the Intern Organization

Student Name: KAMATI NAVEEN	Registration No: 0321014054
Term of Internship: 2 months From: 21-10-2022	To: 31-11-2022
Date of Evaluation:	
Organization Name & Address: INTERNSHALA TRAININGS	
Name & Address of the Supervisor with Mobile Number	

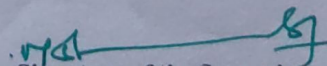
Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

1	Oral communication	1	2	3	4	5
2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
5	Positive Attitude	1	2	3	4	5
6	Self-confidence	1	2	3	4	5
7	Ability to learn	1	2	3	4	5
8	Work Plan and organization	1	2	3	4	5
9	Professionalism	1	2	3	4	5
10	Creativity	1	2	3	4	5
11	Quality of work done	1	2	3	4	5
12	Time Management	1	2	3	4	5
13	Understanding the Community	1	2	3	4	5
14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date:

  
Signature of the Supervisor

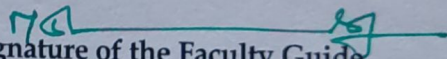


## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: KAMATI NAVEEN  
Programme of Study: B.Sc (M.P.C.S)  
Year of Study: 2022-2023  
Group: (M.P.C.S)  
Register No/H.T. No: 0321014054  
Name of the College: SVCR GOVT DEGREE COLLEGE  
University: Sri Venkateswara University.

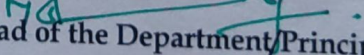
SLNo	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	25	20
2.	Internship Evaluation	50	45
3.	Oral Presentation	25	21
	GRAND TOTAL	100	86

Date: 15/12/22

  
Signature of the Faculty Guide

Certified by

Date: 16/12/22  
Seal:

  
Signature of the Head of the Department/Principal

M. SURYA SEKHAR REDDY  
Asst. Professor In Physics  
S.V.C.R. Govt. Degree College  
Palamaner, Chittoor, (Dt.) A.P  
Pin: 517408





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Atmakur (V)Mangalagiri (M), Guntur, Andhra Pradesh, Pin - 522 503

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