

**SREE NARAYANA GURUKULAM COLLEGE OF  
ENGINEERING**

**KADAYIRUPPU, KOLENCHERY 682 311**

**(Affiliated to APJ Abdul Kalam Technological University)**

**ACADEMIC YEAR 2021-2022**



**20 MCA 132 PROGRAMMING LABORATORY RECORD**

*Submitted by*

**GIRISH K V**

**REG NO : SNG21MCA-2015**

*In partial fulfillment for the award of the degree in*

***MASTER OF COMPUTER APPLICATIONS***

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**KADAYIRUPPU, KOLENCHERY 682 311**

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**20 MCA 132 PROGRAMMING LABORATORY RECORD**

*Certified that this is a Bonafide record of practical work done by  
**GIRISH K V** to the APJ Abdul Kalam Technological University in  
partial fulfillment of the requirements for the award of the Degree in  
**Master of Computer Applications** of Sree Narayana Gurukulam College  
of Engineering done during the Academic year 2021-2023.*

Kadayiruppu

Course Instructor

Date:\_\_\_\_\_

Head of the Department

**Prof. Dr. SANDHYA R**

Submitted for University Practical Examination

**Reg No : SNG21MCA-2015** on \_\_\_\_\_

External Examiner

Internal Examiner

SL NO.	DATE	NAME OF EXPERIMENT	PAGE NO.	REMARK
<b>I</b>	<b>CO1</b>			
1.	03-11-2021	Familiarizing Text Editor, IDE, Code Analysis Tools etc.	1	
2.	08-11-2021	Display Leap Years.	2	
3.1	10-11-2021	Generate positive list of numbers from a given list of integers.	3	
3.2	10-11-2021	Find the Square of N number.	3	
3.3	10-11-2021	Form a list of vowels selected from a given word.	4	
3.4	10-11-2021	List ordinal value of a word.	4	
4.	15-11-2021	Count the occurrences of each words.	5	
5.	15-11-2021	Prompt the user for a list of integers.	6	
6.	17-11-2021	Count the occurrences of 'a' in list	7	
7.	17-11-2021	Checking lists are of same length, sums to same value, whether any value occurs in both.	8	
8.	22-11-2021	Get a string from an input string and replace a character.	10	
9.	22-11-2021	Create a string from given string where first and last characters exchanged.	11	
10.	24-11-2021	Accept the radius from user and find area of circle. Create a list of colors.	12	
11.	24-11-2021	Find biggest of 3 numbers.	13	
12.	24-11-2021	Print extension of files.	14	
13	29-11-2021	Create a list of colors. Display first and last colors.	15	
14.	29-11-2021	Accept an integer n and computer n+nn+nnn.	16	
15.	29-11-2021	Print out all colors from color-list1 not contained in color-list2.	17	
16.	29-11-2021	Create a single string separated with space from two strings by swapping the character at position.	18	

SL NO.	DATE	NAME OF EXPERIMENT	PAGE NO.	REMARK
17.	01-12-2021	Sort dictionary in ascending and descending order.	19	
18.	01-12-2021	Merge two dictionaries.	20	
19.	01-12-2021	Find GCD of 2 numbers.	21	
20.	01-12-2021	Create a list removing even numbers.	22	
<b>II</b>	<b>CO2</b>			
1.	06-12-2021	Find the Factorial of a number.	23	
2.	06-12-2021	Generate Fibonacci series of N terms.	24	
3.	06-12-2021	Find the sum of all items in a list.	25	
4.	06-12-2021	Find the perfect square numbers.	26	
5.	06-12-2021	Display the given pyramid with step number accepted from user.	27	
6.	06-12-2021	Count the number of characters (character frequency) in a string.	28	
7.	08-12-2021	Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly.	29	
8.	08-12-2021	Accept a list of words and return length of longest word.	30	
9.	08-12-2021	Construct pattern using nested loop.	31	
10.	08-12-2021	Generate all factors of a number. def print_factors(x):	32	
11.	08-12-2021	Lambda functions to find area of square, rectangle and triangle.	33	
<b>III</b>	<b>CO3</b>			
1.	13-12-2021	Work with built-in packages.		
		A) <u>Module math</u>	34	
		B) <u>Module time</u>	35	
		C) <u>Module calendar</u>	36	
		D) <u>Module random</u>	38	
		E) <u>Module statistics</u>	38	

SL NO.	DATE	NAME OF EXPERIMENT	PAGE NO.	REMARK
2.	15-12-2021	Create a package graphics with modules rectangle, circle and sub-package 3D-graphics with modules cuboid and sphere.	40	
<b>IV</b>	<b>CO4</b>			
1.	3-01-2022	Compare two Rectangle objects by their area.	43	
2.	5-01-2022	Create a Bank account with members account number, name, type of account and balance.	45	
3.	5-01-2022	Overload '<' operator to compare the area of 2 rectangles.	48	
4.	10-01-2022	Overload '+' operator to find sum of 2 time.	50	
5.	10-01-2022	Use base class constructor invocation and method overriding.	52	
<b>V</b>	<b>CO5</b>			
1	17-01-2022	Program to read a file line by line and store it into a list.	54	
2	17-01-2022	Program to copy odd lines of one file to other.	57	
3.	31-01-2022	Program to read each row from a given csv file and print a list of strings.	62	
4.	31-01-2022	Program to read specific columns of a given CSV file and print the content of the columns.	59	
5.	31-01-2022	Program to write a Python dictionary to a csv file.	61	