SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

KADAYIRUPPU, KOLENCHERY 682311

(Affiliated to APJ Abdul Kalam Technological University)

ACADMEIC YEAR 2021-2023

MCA PROGRAMMING LABORATORY RECORD

Submitted by

SHIRIN SHAHANA V A

REG NO: SNG21MCA-2033

In partial fulfillment for the award of the degree in

MASTER OF COMPUTER APPLICATIONS

SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

KADAYIRUPPU, KOLENCHERY 682311

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Certified that this is a Bonafide record of practical work done by **SHIRIN SHAHANA VA** *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-2033 on

External Examiner Internal Examiner

SL NO.	DATE	NAME OF EXPERIMENT	PAGE NO.	REMARK
I	**CO1**			
1.	**03-11-2021**	**Familiarizing Text Editor, IDE, Code Analysis Tools etc.**	**1**	
2.	**08-11-2021**	**Find Leap Year.**	**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	
II	CO2			
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	
III	CO3			
1.	13-12-2021	Work with built-in packages.		
		A) random module.	34	
		B) time module	35	
		C) calendar module	36	
		D) math module	37	
		E) Statistics module	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.	39	
IV	CO4			
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.	47	
4.	10-01-2022	Overload '+' operator to find sum of 2 time.	49	
5.	10-01-2022	Use base class constructor invocation and method overriding.	51	
V	CO5			
1	17-01-2022	Program to read a file line by line and store it into a list.	53	
2	17-01-2022	Program to copy odd lines of one file to other.	55	
3.	31-01-2022	Program to read each row from a given csv file and print a list of strings.	56	
4.	31-01-2022	Program to read specific columns of a given CSV file and print the content of the columns.	58	
5.	31-01-2022	Program to write a Python dictionary to a csv file.	60	