SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

KADAYIRUPPU, KOLENCHERY 682311

(*Affiliated to APJ Abdul Kalam Technological University*)

ACADEMIC YEAR 2021-23

MCA PROGRAMMING LAB LABORATORY RECORD

Submitted by

PARVATHI PAMESWARAN

REG NO: SNG21MCA-2027

in partial fulfilment for the award of Master's degree in

COMPUTER APPLICATIONS

SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

KADAYIRUPPU, KOLENCHERY 682 311

(Affiliated to APJ Abdul Kalam Technological University)

DEPARTMENT OF COMPUTER APPLICATIONS

PROGRAMMING LAB LABORATORY RECORD

Certified that this is a Bonafide record of practical work done by *Parvathi Padmeswaran* 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 2021-23.

Kadayiruppu

Course Instructor

Date:

Head of the Department

Prof.Dr.SANDHYA R

Submitted for University Practical Examination

Reg No. SNG21MCA-2027   on ---------------

External Examinor   Internal Examinor

SL NO.	DATE	NAME OF EXPERIMENT	PAGE NO.	REMARKS
I.		**CO1**		
1.	24/11/2021	Familiarizing TextEditor, IDE, Code Analysis Tools etc	1	
2.	24/11/2021	Leap Year	1	
3.	24/11/2021	List comprehensions	2	
4.	24/11/2021	Occurrences of each word	4	
5.	24/11/2021	Prompt the user for a list of integers	4	
6.	24/11/2021	Store a list of first names	5	
7.	24/11/2021	Checking list are of same length, sums to same value, any value occur in both	6	
8.	24/11/2021	Get a string from an input string and replacing a character	7	
9.	24/11/2021	Create a string from given string where first and last characters exchanged	8	
10.	24/11/2021	Accept the radius from user and find area of circle	8	
11.	29/11/2021	Find biggest of 3 numbers entered	9	
12.	29/11/2021	Accept a file name from user and print extension of that	9	
13.	29/11/2021	Create a list of colors, Display first and last colors	10	
14.	29/11/2021	Accept an integer n and compute n+nn+nnn	11	
15.	29/11/2021	Print out all colors from color-list1 not contained in color-list2	11	
16.	29/11/2021	Create a single string separated with space from two strings by swapping the character at position1	11	
17.	29/11/2021	Sort dictionary in ascending and descending order	12	
18.	29/11/2021	Merge two dictionaries	13	
19.	29/11/2021	Find gcd of 2 numbers.	13	

20.	29/11/2021	From a list of integers, create a list removing even numbers	14	
II.		**CO2**		
1.	01/12/2021	Program to find the factorial of a number	15	
2.	01/12/2021	Generate Fibonacci series of N terms	15	
3.	01/12/2021	Find the sum of all items in a list	16	
4.	01/12/2021	Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square	16	
5.	01/12/2021	Display the given pyramid with step number accepted from user	17	
6.	01/12/2021	Count the number of characters (character frequency)in a string	17	
7.	08/12/2021	Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly'	18	
8.	08/12/2021	Accept a list of words and return length of longest word	18	
9.	08/12/2021	Construct pattern using nested loop	19	
10.	08/12/2021	Generate all factors of a number. def print_factors(x):	20	
11.	08/12/2021	Write lambda functions to find area of square, rectangle and triangle.	21	
III.		**CO3**		
1.	15/12/2021	Work with built- in packages	22	
	15/12/2021	Creation of packages	27	
IV.		**CO4**		
1.	09/01/2022	Compare two Rectangle objects by their area	30	
2.	09/01/2022	Create a Bank account with members account number, name, type of account and balance.	31	
3.	09/01/2022	Overload '<' operator to compare the area of 2 rectangles	35	
4.	09/01/2022	Overload '+' operator to find sum of 2 time	36	

5.	09/01/2022	Use base class constructor invocation and method overriding	38	
V.		**CO5**		
1.	30/01/2022	Write a Python program to read a file line by line and store it in to a list	40	
2.	30/01/2022	Python program to copy odd lines of one file to other	40	
3.	30/01/2022	Write a Python program to read each row from a given csv file and print a list of strings.	41	
4.	30/01/2022	Write a Python program to read specific columns of a given CSV file	41	
5.	30/01/2022	Write a Python program to write a Python dictionary to a csv file	42	