

**SREE NARAYANA GURUKULAM COLLEGE OF
ENGINEERING**

KADAYIRUPPU, KOLENCHERY 682 311

(Affiliated to APJ Abdul Kalam Technological University)

ACADEMIC YEAR 2021-22



20 MCA 132 PROGRAMMING LABORATORY RECORD

Submitted by

ASWIN M R

REG NO: SNG21MCA-2009

in partial fulfillment for the award of the degree in

MASTER OF COMPUTER APPLICATIONS

**SREE NARAYANA GURUKULAM COLLEGE OF
ENGINEERING**

KADAYIRUPPU, KOLENCHERY 682 311

(Affiliated to APJ Abdul Kalam Technological University)



20 MCA 132 PROGRAMMING LABORATORY RECORD

*Certified that this is a Bonafide record of practical work done by **ASWIN M R** 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 2021-22*

Kadayiruppu

Course Instructor

Date:.....

Head of the Department

Prof. Dr. SANDHYA R

Submitted for University Practical Examination

Reg No: SNG21MCA-2009 on _ _ _ _ _

External Examiner

Internal Examiner

| SL NO. | DATE | NAME OF EXPERIMENT | PAGE NO. | REMARK |
|----------|------------|---|----------|--------|
| I | CO1 | | | |
| 1 | 24/11/21 | Familiarizing Text Editor, IDE, Code Analysis Tools etc | 1 | |
| 2 | 24/11/21 | Leap Year | 3 | |
| 3 | 24/11/21 | List comprehensions | 4 | |
| 4 | 24/11/21 | occurrences of each word | 6 | |
| 5 | 24/11/21 | Prompt the user for a list of integers. | 7 | |
| 6 | 24/11/21 | Store a list of first names. | 8 | |
| 7 | 24/11/21 | Checking list are of same length,sums to same value,any value occur in both | 9 | |
| 8 | 24/11/21 | Get a string from an input string and replacing a character | 11 | |
| 9 | 24/11/21 | Create a string from given string where first and last characters exchanged. | 12 | |
| 10 | 24/11/21 | Accept the radius from user and find area of circle | 13 | |
| 11 | 29/11/21 | Find biggest of 3 numbers entered | 14 | |
| 12 | 29/11/21 | Accept a file name from user and print extension of that | 15 | |
| 13 | 29/11/21 | Create a list of colors,Display first and last colors. | 16 | |
| 14 | 29/11/21 | Accept an integer n and compute n+nn+nnn | 17 | |
| 15 | 29/11/21 | Print out all colors from color-list1 not contained in color-list2 | 18 | |
| 16 | 29/11/21 | Create a single string separated with space from two strings by swapping the character at position 1. | 19 | |
| 17 | 29/11/21 | Sort dictionary in ascending and descending order | 20 | |

| | | | | |
|-----|----------|---|----|--|
| 18 | 29/11/21 | Merge two dictionaries | 21 | |
| 19 | 29/11/21 | Find gcd of 2 numbers. | 22 | |
| 20 | 29/11/21 | From a list of integers, create a list removing even numbers. | 23 | |
| II | CO2 | | | |
| 1 | 01/12/21 | Program to find the factorial of a number | 24 | |
| 2 | 01/12/21 | Generate Fibonacci series of N terms | 25 | |
| 3 | 01/12/21 | Find the sum of all items in a list | 26 | |
| 4 | 01/12/21 | Generate a list of four digit numbers in a given range with all their digits even and the number is a perfect square. | 27 | |
| 5 | 01/12/21 | Display the given pyramid with step number accepted from user | 28 | |
| 6 | 01/12/21 | Count the number of characters (character frequency) in a string | 29 | |
| 7 | 08/12/21 | Add 'ing' at the end of a given string. If it already ends with 'ing', then add 'ly' | 30 | |
| 8 | 08/12/21 | Accept a list of words and return length of longest word | 31 | |
| 9 | 08/12/21 | Construct pattern using nested loop | 32 | |
| 10 | 08/12/21 | Generate all factors of a number. def print_factors(x): | 33 | |
| 11 | 08/12/21 | Write lambda functions to find area of square, rectangle and triangle. | 34 | |
| III | CO3 | | | |
| 1 | 15/12/21 | Work with built-in packages | 35 | |
| 2 | 15/12/21 | Creation of packages | 41 | |
| IV | CO4 | | | |

| | | | | |
|----------|-----------------|---|-----------|--|
| 1 | 09/01/22 | Compare two Rectangle objects by their area | 44 | |
| 2 | 09/01/22 | Create a Bank account with members account number, name, type of account and balance. | 46 | |
| 3 | 09/01/22 | Overload '<' operator to compare the area of 2 rectangles. | 50 | |
| 4 | 09/01/22 | Overload '+' operator to find sum of 2 time | 52 | |
| 5 | 09/01/22 | Use base class constructor invocation and method overriding. | 54 | |
| V | CO5 | | | |
| 1 | 30/01/22 | Write a Python program to read a file line by line and store it into a list. | 56 | |
| 2 | 30/01/22 | Python program to copy odd lines of one file to other | 57 | |
| 3 | 30/01/22 | Write a Python program to read each row from a given csv file and print a list of strings. | 58 | |
| 4 | 30/01/22 | Write a Python program to read specific columns of a given CSV file | 59 | |
| 5 | 30/01/22 | Write a Python program to write a Python dictionary to a csv file. | 60 | |