**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** |
|  | **CO1** | | | |
|  | 24/11/2021 | Familiarizing TextEditor, IDE, Code Analysis Tools etc | 1 |  |
|  | 24/11/2021 | Leap Year | 1 |  |
|  | 24/11/2021 | List comprehensions | 2 |  |
|  | 24/11/2021 | Occurrences of each word | 4 |  |
|  | 24/11/2021 | Prompt the user for a list of integers | 4 |  |
|  | 24/11/2021 | Store a list of first names | 5 |  |
|  | 24/11/2021 | Checking list are of same length, sums to same value, any value occur in both | 6 |  |
|  | 24/11/2021 | Get a string from an input string and replacing a character | 7 |  |
|  | 24/11/2021 | Create a string from given string where first and last characters exchanged | 8 |  |
|  | 24/11/2021 | Accept the radius from user and find area of circle | 8 |  |
|  | 29/11/2021 | Find biggest of 3 numbers entered | 9 |  |
|  | 29/11/2021 | Accept a file name from user and print extension of that | 9 |  |
|  | 29/11/2021 | Create a list of colors, Display first and last colors | 10 |  |
|  | 29/11/2021 | Accept an integer n and compute n+nn+nnn | 11 |  |
|  | 29/11/2021 | Print out all colors from color-list1 not contained in color-list2 | 11 |  |
|  | 29/11/2021 | Create a single string separated with space from two strings by swapping the character at position1 | 11 |  |
|  | 29/11/2021 | Sort dictionary in ascending and descending order | 12 |  |
|  | 29/11/2021 | Merge two dictionaries | 13 |  |
|  | 29/11/2021 | Find gcd of 2 numbers. | 13 |  |
|  | 29/11/2021 | From a list of integers, create a list removing even numbers | 14 |  |
|  | **CO2** | | | |
|  | 01/12/2021 | Program to find the factorial of a number | 15 |  |
|  | 01/12/2021 | Generate Fibonacci series of N terms | 15 |  |
|  | 01/12/2021 | Find the sum of all items in a list | 16 |  |
|  | 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 |  |
|  | 01/12/2021 | Display the given pyramid with step number accepted from user | 17 |  |
|  | 01/12/2021 | Count the number of characters (character frequency)in a string | 17 |  |
|  | 08/12/2021 | Add ‘ing’ at the end of a given string. If it already ends with ‘ing’, then add ‘ly’ | 18 |  |
|  | 08/12/2021 | Accept a list of words and return length of longest word | 18 |  |
|  | 08/12/2021 | Construct pattern using nested loop | 19 |  |
|  | 08/12/2021 | Generate all factors of a number. def print\_factors(x): | 20 |  |
|  | 08/12/2021 | Write lambda functions to find area of square, rectangle and triangle. | 21 |  |
|  | **CO3** | | | |
|  | 15/12/2021 | Work with built- in packages | 22 |  |
|  | 15/12/2021 | Creation of packages | 27 |  |
|  | **CO4** | | | |
|  | 09/01/2022 | Compare two Rectangle objects by their area | 30 |  |
|  | 09/01/2022 | Create a Bank account with members account number, name, type of account and balance. | 31 |  |
|  | 09/01/2022 | Overload ‘<’ operator to compare the area of 2 rectangles | 35 |  |
|  | 09/01/2022 | Overload ‘+’ operator to find sum of 2 time | 36 |  |
|  | 09/01/2022 | Use base class constructor invocation and method overriding | 38 |  |
|  | **CO5** | | | |
|  | 30/01/2022 | Write a Python program to read a file line by line and store it in to a list | 40 |  |
|  | 30/01/2022 | Python program to copy odd lines of one file to other | 40 |  |
|  | 30/01/2022 | Write a Python program to read each row from a given csv file and print a list of strings. | 41 |  |
|  | 30/01/2022 | Write a Python program to read specific columns of a given CSV file | 41 |  |
|  | 30/01/2022 | Write a Python program to write a Python dictionary to a csv file | 42 |  |