

# **MCAC0811: Python Programming Lab Program List**

## **Module I**

### **1. Introduction:**

#### **Compulsory**

- a. Python Program to Print Hello world!
- b. Python Program to Add Two Numbers
- c. Python Program to Find the Square Root
- d. Python Program to Calculate the Area of a Triangle
- e. Python Program to Solve Quadratic Equation
- f. Python Program to Swap Two Variables
- g. Python Program to Generate a Random Number
- h. Python Program to Convert Kilometers to Miles
- i. Python Program to Convert Celsius To Fahrenheit

### **2. Decision Making and Loop**

#### **Compulsory**

- a. Python program to check if a number is positive, negative or zero
- b. Python Program to Check if a Number is Odd or Even
- c. Python Program to Check Leap Year
- d. Python Program to Find the Largest Among Three Numbers
- e. Python Program to Check Prime Number
- f. Python Program to Print all Prime Numbers in an Interval
- g. Python Program to Find the Factorial of a Number
- h. Python Program to Display the multiplication Table
- i. Python Program to Print the Fibonacci sequence
- j. Python Program to Check Armstrong Number
- k. Python Program to Find Armstrong Number in an Interval
- l. Python Program to Find the Sum of Natural Numbers

### **3. String**

- a. Python Program to Check Whether a String is Palindrome or not
- b. Python Program to Remove Punctuations From a String
- c. Python Program to Sort Words in Alphabetic Order

- d. Python Program to Count the Number of Each Vowel
- e. Count the number of characters (character frequency) in a string
- f. Write a Python program to get a string made of the first 2 and the last 2 chars from a given a string. If the string length is less than 2, return instead of the empty string.
- g. Get a single string from two given strings, separated by a space and swap the first two characters of each string

#### **4. Function**

- a. Python Program To Display Powers of 2 Using Anonymous Function
- b. Python Program to Find Numbers Divisible by Another Number
- c. Python Program to Convert Decimal to Binary, Octal and Hexadecimal
- d. Python Program to Find ASCII Value of Character
- e. Python Program to Find HCF or GCD
- f. Python Program to Find LCM
- g. Python Program to Find Factors of Number
- h. Python Program to Make a Simple Calculator
- i. Python Program to Display Fibonacci Sequence Using Recursion
- j. Python Program to Find Sum of Natural Numbers Using Recursion
- k. Python Program to Find Factorial of Number Using Recursion
- l. Python Program to Convert Decimal to Binary Using Recursion