**Computing Tools Lab**

**Functions**

**Note:**

**\*\* Mention python version**

**\*\*Mention how the input should be given**

**\*\*File name: function\_rollno.**

Q1) Write a program which finds the common between two sequences (list, tuples and strings) using functions.

Q2) Write a program that converts decimal to binary using function.

Q3) Write a program that takes in arbitrary number of binary numbers from the user. Using a function, check it they are divisible by 5. At least one number should be given

E.g: if the user gives: 1000, 1010, 1111, 011101

Output: 1000 and 1010

Q4) Write a program which will accept any arbitrary number of files names from console. The test files can have some data in a single column. The function should be able to check the common elements in the files. Provide the test files with the program

Q5) Write a program which will take input as lengths of three sides of a triangle and check if it’s a right angled triangle

Q6) Write a program which accepts two numbers and prints the numbers between them such that every digit of the numbers are even (the inputs included).

E.g: 1000 to 3000 as input

Output: 2000, 2002, 2004…2888..

Q7) Write **recursive** functions for the following:

1. Factorial of a number
2. Reverse of a string
3. Sum of the first n numbers