SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

FACULTY OF ENGINEERING AND TECHNOLOGY

SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTATIONAL INTELLIGENCE

**21CSC203P ADVANCED PROGRAMMING PRACTICE**

**Week 10 – Tutorial Assignment**

**SIMPLE PYTHON PROGRAM TO IMPLEMENT FUNCTIONS**

1. Write a python program to calculate the sum of Two numbers and Three numbers. However, if the sum is between 120 to 320 it will return 200.
2. Implement a python function to find the Maximum of Three numbers.
3. Write a python program to calculate the Factorial of a given number.
4. Write a python program to Check if a Number is Even or Odd and also check whether it is Prime or not.
5. Implement a python function to Reverse a given String and also check for palindrome or not.
6. Write a python program to Generate Fibonacci Sequence.
7. Write a python program to calculate the area and perimeter of different geometric shapes (circle, rectangle, triangle, etc.).
8. Implement a python function to Convert Celsius to Fahrenheit and Fahrenheit to Celsius.
9. Write a Python program that accepts a string and counts the number of upper and lower case letters.
10. Write a python program to perform Arithmetic operations on Complex Numbers.

**HACKERRANK**

<https://www.hackerrank.com/challenges/default-arguments/problem?isFullScreen=true>

<https://www.hackerrank.com/challenges/words-score/problem?isFullScreen=true>

<https://www.hackerrank.com/challenges/reduce-function/problem?isFullScreen=true>