Lab Week 1:

- 1. Write a python program to find the area and circumference of a circle (radius r as input) (Formula area = πr^2 , Circumference = $2 \pi r$)
- 2. Write a Python Program to find the area and circumference of a rectangle (input length and width) Formula: **area** = **lw** (where 1 is the length and W is the width) Formula: **Circumference** = 2 * (**l** + **W**)
- 3. Write a Python Program to find area of the triangle (formula area = 1/2 * base * height.)
- 4. Write a Python program that calculates and prints the value according to the given formula: **Q** = **Square root of** [(2 * C * D)/H]. Following are the fixed values of C and H: C is 50. H is 30. D is the variable whose values should be input to your program. Example: Let us assume the following input is given to the program: 100. The output of the program should be:18
- 5. Write a Python Program to calculate Simple Interest and Compound Interest
- 6. Write a python Program to Convert Celsius to Fahrenheit and vice versa
- 7. Compute the growth of money in a bank. Let p be a bank's interest rate in percent per year. An initial amount A has then grown to

 $A\left(1+\frac{p}{100}\right)^n$ after n years. Make a program for computing how much money 100000 Rupees have grown to after three years with 5 percent interest rate.