**Assignment - Day 1**

**Time 90 mins**

1. Write a program which calculates the factorial of any given integer number ranging 1 to 50 and print the output of the same. **10 mins**
2. Write a Java Program to assign integer to an array and then print the following
   1. Average value of Array elements
   2. Minimum and Maximum value in an array

**20 mins**

1. Write a program to create a Matrix (a two dimensional array of size 10 by 10). Write code to perform the below operations:
   1. Set each of the array elements to zero.
   2. Find transpose of the matrix

**20 mins**

1. Write a program to find second largest of three numbers and display the it .

**10 mins**

1. Create a Java program to accept a number, and then print the following information,
   1. The area and circumference of the circle with that radius.
   2. The
   3. of diagonal of the square that has sides of that length. (Use the Pythagorean Theorem to calculate the length of the diagonal.)
   4. The volume and surface area of the sphere with that radius.

**30 mins**