Assignment Day 1

- 1. Write a program to print "Hello Java" (enclosed within double quotes) on the standard output.
- 2. Write a Java program that calculates and prints the simple interest using the formula:

Simple Interest = PTR / 100

input values P,T,R should be accepted as command line input as below. e.g. java Simple Interest 5 10 15

- 3. Write a program to compute sum of digits of a given number. (Hint: Separate digits one by one from the number and then add)
- 4. Write a program that prints prime numbers between 1 to n. Number n should be accepted as command line input
- 5. Write a program that converts a decimal number to Roman number. Decimal Number is accepted as command line input at the time of execution.
- 6. WAP to to print following pattern (Pascals Triangle)

```
1
11
121
1331
1. 4641
```

- 7. Write a Java program that accepts the radius of a circle and displays the options as follows:
 - 1. find diameter of a cicle.(2* radius)
 - 2. find area of circle.(* radius * radius)
 - 3. find circumference of a circle.(2 * * radius)
 - 4. exit.

Use case statement to implement each option and display the corresponding output.

- 8. Define a class called fruit with the following attributes:
 - 1. Name of the fruit.
 - 2. Single fruit or bunch fruit.
 - 3. Price.

Define a suitable constructor and displayFruit() method that displays values of all the attributes. Write a program that creates 2 objects of fruit class and display their attributes.

9. Write a program to find the Factorial of a number using Recursion. Factorial can be defined as Factorial(n) = 1 * 2 * 3* (n-1) * n.

- 10. WAP to print the sum of Harmonic Series: Input=3 Output=1/1+1/2+1/3=1.83333333..
- 11. WAP to display the following output

1 24 369 481216 510152025

12. WAP to display the entered number in word.

Input: 123

Output: One Two Three