Core Java Assignment - 001 - Logic Building

**Q. Fibonacci series**

Write a java program to print Fibonacci series without using recursion and using recursion.

Input: 10

Output: 0 1 1 2 3 5 8 13 21 34

**Q. Prime number**

Write a java program to check prime number.

Input: 44

Output: not prime number

Input: 7

Output: prime number

**Q. Palindrome number**

Write a java program to check palindrome number.

Input: 329

Output: not palindrome number

Input: 12321

Output: palindrome number

**Q. Factorial number**

Write a java program to print factorial of a number.

Input: 5

Output: 120

Input: 6

Output: 720

**Q. Armstrong number** (Note- A number is Armstrong if the sum of the cubes of digit of number is equal to the number.)

Write a java program to check Armstrong number.

Input: 153

Output: Armstrong number

Input: 22

Output: not Armstrong number

**Q.** Write a Java program to print the area and perimeter of a circle.

**Q.** Write a Java program to swap two variables.

**Q.** Write a Java program to check whether Java is installed on your computer.

Expected Output

Java Version: 1.8.0\_71

Java Runtime Version: 1.8.0\_71-b15

Java Home: /opt/jdk/jdk1.8.0\_71/jre

Java Vendor: Oracle Corporation

Java Vendor URL: http://java.oracle.com/

Java Class Path: .

**Q.** Swap Numbers Without Using Third Variable Java Example

**Q.** Java Factorial Example

**Q.** Java Factorial Using Recursion Example

**Q.** Write a Java program and compute the sum of the digits of an integer.

Input an integer: 25

Expected Output

The sum of the digits is: 7

**Q.** Write a Java program to reverse a string.

Input a string: The quick brown fox

Expected Output

Reverse string: xof nworb kciuq ehT

**Q.** Write a Java program to count the letters, spaces, numbers and other characters of an input string.

The string is: Aa kiu, I swd skieo 236587. GH kiu: sieo?? 25.33

letter: 23

space: 9

number: 10

other: 6