# 71.Program to print Fibonacci series upto a number using BufferedReader:

```
Code:
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
public class FibonacciSeriesDemo
{
  public static void main(String[] args) throws IOException
  {
     //Get the number of elements to be generated in Fibonacci series
     BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
     System.out.println("Enter the decimal number");
     String limitString = br.readLine();
     int n = Integer.parseInt(limitString);
     int a=0,b=1,c;
     System.out.print(a+" ");
     System.out.print(b+" ");
     for(int i=1;i <= n-2;i++)
                   {
                          c=a+b;
                          System.out.print(c+" ");
                          a=b;
                          b=c;
                   }
      }
}
```

#### Output:

```
root@sree-Inspiron-5558:~/Desktop# javac FibonacciSeriesDemo.java
root@sree-Inspiron-5558:~/Desktop# java FibonacciSeriesDemo
Enter the decimal number
10
0 1 1 2 3 5 8 13 21 34 root@sree-Inspiron-5558:~/Desktop# |
```

#### 72. How to read and write excel file in java:

```
try {
  POIFSFileSystem fs = new POIFSFileSystem(new FileInputStream(file));
  HSSFWorkbook wb = new HSSFWorkbook(fs);
  HSSFSheet sheet = wb.getSheetAt(0);
  HSSFRow row;
  HSSFCell cell:
  int rows; // No of rows
  rows = sheet.getPhysicalNumberOfRows();
  int cols = 0; // No of columns
  int tmp = 0;
  // This trick ensures that we get the data properly even if it doesn't start from
first few rows
  for(int i = 0; i < 10 || i < rows; i++) {
     row = sheet.getRow(i);
     if(row != null) {
       tmp = sheet.getRow(i).getPhysicalNumberOfCells();
       if(tmp > cols) cols = tmp;
     }
```

#### 73.To check Prime numbers:

```
Code:
import java.util.Scanner;
class PrimeCheck
{
 public static void main(String args[])
  {
      int temp;
      boolean isPrime=true;
      Scanner scan= new Scanner(System.in);
      System.out.println("Enter a number for check:");
      //capture the input in an integer
      int num=scan.nextInt();
      for(int i=2;i <= num/2;i++)
      {
      temp=num%i;
        if(temp==0)
        {
          isPrime=false;
          break;
        }
      }
      //If isPrime is true then the number is prime else not
      if(isPrime)
        System.out.println(num + " is Prime Number");
      else
        System.out.println(num + " is not Prime Number");
 }
}
```

# Output:

```
0 1 1 2 3 5 8 13 21 34 root@sree-Inspiron-5558:~/Desktop# javac PrimeCheck.java root@sree-Inspiron-5558:~/Desktop# java PrimeCheck Enter a number for check:
37
37 is Prime Number root@sree-Inspiron-5558:~/Desktop# |
```

#### 74. To check for palindrome words in a sentence:

```
import java.util.*;
class Prog74
{
public static void main(String [] args)
Scanner in = new Scanner(System.in);
System.out.print("Enter the String : ");
String st = in.nextLine();
int I = st.length();
String bin = "";
for(int i=0;i<1;i++)
{
char ch = st.charAt(i);
if(!(Character.isWhitespace(ch)))
{
bin=bin+ch;
continue;
}
else
if(Character.isWhitespace(ch))
{
int b = bin.length();
int d=bin.charAt(0);
int e = bin.charAt(b-1);
if(d==e)
System.out.print(bin+" ");
bin = "";
}
}}}
```

### 75.To check Armstrong number or not:

Code:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
class ArmstrongExample{
 public static void main(String[] args) throws IOException{
  int c=0,a,temp;
 BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    System.out.println("Enter the number");
    String I = br.readLine();
    int n = Integer.parseInt(I);
  temp=n;
  while(n>0)
  {
  a=n%10;
  n=n/10;
  c=c+(a*a*a);
  }
  if(temp==c)
  System.out.println("armstrong number");
  else
    System.out.println("Not armstrong number");
 }
}
```

# Output:

```
root@sree-Inspiron-5558:~/Desktop# javac ArmstrongExample.java
root@sree-Inspiron-5558:~/Desktop# java ArmstrongExample
Enter the number
153
armstrong number
root@sree-Inspiron-5558:~/Desktop# |
```

# 76.Decimal to binary:

```
public class ConvertIntToBinaryExample {
    public static void main(String[] args) {
        int i = 56;

        String strBinaryNumber = Integer.toBinaryString(i);

        System.out.println("Convert decimal number to binary number example");

        System.out.println("Binary value of " + i + " is " + strBinaryNumber);
    }
}
```

# 77.Binary to Decimal:

```
public class ConvertBinaryToDecimalNumber {
    public static void main(String[] args) {
        //declare string containing binary number
        String strBinaryNumber = "111000";

        int decimalNumber = Integer.parseInt(strBinaryNumber,2);
        System.out.println("Binary number converted to decimal number");
        System.out.println("Decimal number is : " + decimalNumber);
    }
}
```

## 78. Check if string contains valid number:

```
public class CheckValidNumberExample {
     public static void main(String[] args) {
          String[] str = new String[]{"10.20", "123456", "12.invalid"};
          for(int i=0; i < str.length; i ++)
          {
               if( str[i].indexOf(".") > 0 )
               {
                    try
                    {
                         Double.parseDouble(str[i]);
                         System.out.println(str[i] + " is a valid decimal
number");
                    }
                    catch(NumberFormatException nme)
                    {
                         System.out.println(str[i] + " is not a valid decimal
number");
                    }
               }
               else
                    try
                    {
```

## 79.To print pyramid pattern:

```
class pyramid
{
    public static void main(String[] args) {

for (int i=0;i<=5;i++) {

for (int j=0;j<i;j++) {

    System.out.print("*");
    }

    System.out.println();
}
</pre>
```

```
root@sree-Inspiron-5558:~/Desktop# javac pyramid.java
root@sree-Inspiron-5558:~/Desktop# java pyramid

*
* * *
* * *
* * *
* * *
* * * *
* root@sree-Inspiron-5558:~/Desktop# |
```

## **80.**To print the sum of the series: -1+2-3+4-5+6.....17:

```
class series
{
public static void main(String [] args)
{
Int s=0;
for(int i=1; i<18; i++)
\{ if(i\%2!=0) \}
s=s-i;
else
s=s+i;
}
System.out.println("Sum of series is: " + s);
}
}
       root@sree-Inspiron-5558:~/Desktop# javac series.java
       root@sree-Inspiron-5558:~/Desktop# java series
       Sum of series is: -9
       root@sree-Inspiron-5558:~/Desktop# |
```