

```
/** ** Program to Print Sum of Series  $1+x+x^2+x^3+\dots+x^n$  ** */  
  
import java.io.*;  
import java.lang.Math;  
  
class series1  
{  
    public static void main(String ar[])  
    {  
        double i, x=0, n=0, sum=0;  
        DataInputStream obj= new DataInputStream(System.in);  
        try  
        {  
            System.out.println("Enter the value of x:");  
            x = Integer.parseInt(obj.readLine());  
            System.out.println("Enter the value of n:");  
            n = Integer.parseInt(obj.readLine());  
        }  
        catch(IOException e)  
        { }  
  
        for(i=0;i<=n;i++)  
            sum = sum + Math.pow(x,i);  
        System.out.println("Sum is:" + sum);  
    }  
}
```

Output:

```
C:\Documents and Settings\Administrator\Desktop\java\11-07>javac series1.java  
Note: series1.java uses or overrides a deprecated API.  
Note: Recompile with -Xlint:deprecation for details.  
  
C:\Documents and Settings\Administrator\Desktop\java\11-07>java series1  
Enter the value of x:  
2  
Enter the value of n:  
6  
Sum is:127.0  
  
C:\Documents and Settings\Administrator\Desktop\java\11-07>
```