

OOPL

1. Write a java program to solve the following series
 $1-2+3-4+\dots+N = ?$
2. Write a java program to find the factorial of an integer number.
3. Write a java program to find the sum of digits of an integer number.
4. Write a java program to implement the pow() function.
5. WAP to find out sum of digits of a number and check that this sum is an Armstrong number or not.
6. Find out the sum of the digits and check that sum is a prime or not.
7. Write a java program to find the reverse of an integer number and check the reversed number is a palindrome or not.
9. Read a range from the user.WAP to print all prime numbers which are also palindrome numbers.
10. WAP to read different types of data types and print the values.
11. Wap to print the following:

a) *

 **

b) *****

 **

 *

c)

```
      *
     ***
    *****
   *********
  ***********
 *****
```

d)

```
*****
*****
*****
***
*
```

***Note: Utilize a two-class setup, with one class dedicated solely to the main function and function calls, and the other class covers the remaining segments of your program.**