

Devika.B
roll no.22

DATE : 10 - FEB - 2025

ASSIGNMENT – 1

Even-Odd Classification

AIM :

Write a Java program to check whether an input number is even or odd.

Program :

```
import java.util.Scanner;
public class EvenOdd{
    public static void main(String arg[]){
        Scanner s=new Scanner(System.in);
        System.out.print("enter the num:");
        int num=s.nextInt();
        if(num%2==0){
            System.out.println("Even");
        }
        else{
            System.out.println("Odd");
        }
    }
}
```

OUTPUT



```
Even
24mca22@mcaserver:~/oop$ nano EvenOdd.java
24mca22@mcaserver:~/oop$ javac EvenOdd.java
24mca22@mcaserver:~/oop$ java EvenOdd
enter the num:6
Even
24mca22@mcaserver:~/oop$ javac EvenOdd.java
24mca22@mcaserver:~/oop$ java EvenOdd
enter the num:3
Odd
```

ASSIGNMENT – 2

Sum of First n Natural Numbers

AIM :

Write a Java program to compute the sum of the first n natural numbers.

Program :

```
import java.util.Scanner;
public class Sum{
    public static void main(String arg[]){
        System.out.print("Enter the n:");
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int r=0;
        for(int i=0;i<=n;i++){
            r=r+i;
        }
        System.out.println("sum="+ r);
    }
}
```

OUTPUT

```

24mca22@mcaserver:~/oop$ nano Sum.java
24mca22@mcaserver:~/oop$ javac Sum.java
24mca22@mcaserver:~/oop$ java Sum
Enter the n:10
sum=55
24mca22@mcaserver:~/oop$ nano Fact.java

```

ASSIGNMENT – 3

Factorial of a Number

AIM :

Write a Java program to check whether an input number is even or odd.

Program :

```

import java.util.Scanner;
public class Fact{
    public static void main(String arg[]){
        System.out.println("enter the num:");
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        int r=1;
        for(int i=1;i<=n;i++){
            r=r*i;
        }
        System.out.println("fact:"+ r);
    }
}

```

OUTPUT

```

enter the num:
10
fact3628800
24mca22@mcaserver:~/oop$ java Fact
enter the num:
5
fact120
24mca22@mcaserver:~/oop$ nano Fact.java
24mca22@mcaserver:~/oop$ javac Fact.java
24mca22@mcaserver:~/oop$ java Fact
enter the num:
3
fact:6
24mca22@mcaserver:~/oop$ nano Grade.java

```

ASSIGNMENT – 4

Assigning Grades Based on Numeric Score

AIM :

Write a Java program to check whether an input number is even or odd.

Program :

```
import java.util.Scanner;
public class Grade{
    public static void main(String arg[]){
        System.out.print("enter the mark:");

        Scanner s=new Scanner(System.in);
        int mark=s.nextInt();
        if(mark>=90)
            System.out.println("grade A");
        else if(mark>=80)
            System.out.println("grade B");
        else if (mark>=70)
            System.out.println("grade C");
        else if(mark>=60)
            System.out.println("grade D");
        else
            System.out.println("fail");
    }
}
```

OUTPUT

```
24mca22@mcaserver:~/oop$ java Fact
enter the num:
60
fact:0
24mca22@mcaserver:~/oop$ javac Grade.java
24mca22@mcaserver:~/oop$ java Grade
enter the mark:60
grade D
24mca22@mcaserver:~/oop$ java Grade
enter the mark:90
grade A
24mca22@mcaserver:~/oop$ java Grade
enter the mark:50
fail
24mca22@mcaserver:~/oop$
```