PGM 1:

Even-Odd Classification

Aim:

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

Source Code:

```
GNU nano 6.2
import java.util.Scanner;

public class EvenOdd{
    public static void main(String[] args){
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int number = scanner.nextInt();

        if(number % 2 == 0){
            System.out.println(number + " is even:");
        }else{
            System.out.println(number + " is odd:");
        }
}
```

Output:

```
24mca30@mcaserver:~$ java EvenOdd
Enter a number: 5
5 is odd:
24mca30@mcaserver:~$
```

PGM2:

Sum of First n Natural Numbers

Aim:

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

Source Code:

Output:

```
24mca30@mcaserver:~/javalab$ java naturalnos
Enter n:5
Sum=1524mca30@mcaserver:~/javalab$
```

PGM3:

Factorial of a Number

Aim:

Write a Java program to compute the factorial of a given number.

Source Code:

Output:

```
24mca30@mcaserver:~/javalab$ java factorial
Enter the number:14
Factorial=127894528024mca30@mcaserver:~/javalab$
```

PGM4:

Assigning Grades Based on Numeric Score

Aim

Write a Java program that assigns a grade based on a numeric score.

Source Code:

Output:

```
24mca30@mcaserver:~/javalab$ javac grade.java
24mca30@mcaserver:~/javalab$ java grade
Enter the mark:67
Grade D24mca30@mcaserver:~/javalab$
```