PROGRAM 1

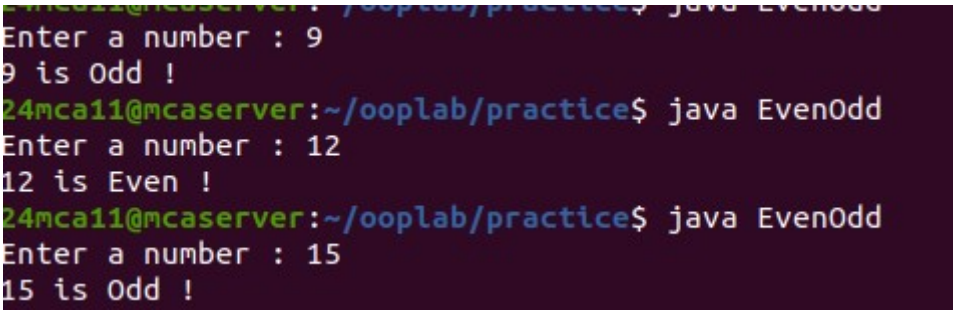
AIM : Even-Odd Classification

DATE : 10/02/2025

SOURCE CODE :

```
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 :



PROGRAM 2

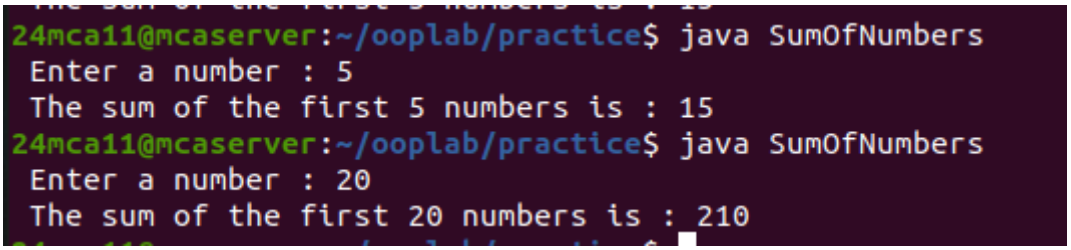
AIM : Sum of First n Natural Numbers

DATE : 10/02/2025

SOURCE CODE :

```
import java . util . Scanner ;
public class SumOfNumbers
{
	public static void main ( String [] args )
	{
		Scanner scanner = new Scanner ( System . in ) ;
		System . out . print ( " Enter a number : " ) ;
		int n = scanner . nextInt () ;
		int sum = 0;
		for ( int i = 1; i <= n ; i ++)
		{
			sum += i ;
		}
		System . out . println ( " The sum of the first " + n + " numbers is : " +
sum ) ;
	}
}
```

OUTPUT :



PROGRAM 3

AIM : Factorial of a Given Number

DATE : 10/02/2025

SOURCE CODE :

```
import java . util . Scanner ;
public class Factorial
{
	public static void main ( String [] args )
	{
		Scanner scanner = new Scanner ( System . in ) ;
		System . out . print ( " Enter a number : " ) ;
		int number = scanner . nextInt () ;
		int factorial = 1;
		int i = 1;
		while ( i <= number )
		{
			factorial *= i ;
			i ++;
		}
		System . out . println ( " The factorial of " + number + " is : " +
factorial ) ;
	}
}
```

OUTPUT :

```
Enter a number : 5
The factorial of 5 is : 120
24mca11@mcaserver:~/ooplab/practice$ java Factorial
Enter a number : 10
The factorial of 10 is : 3628800
```

PROGRAM 4

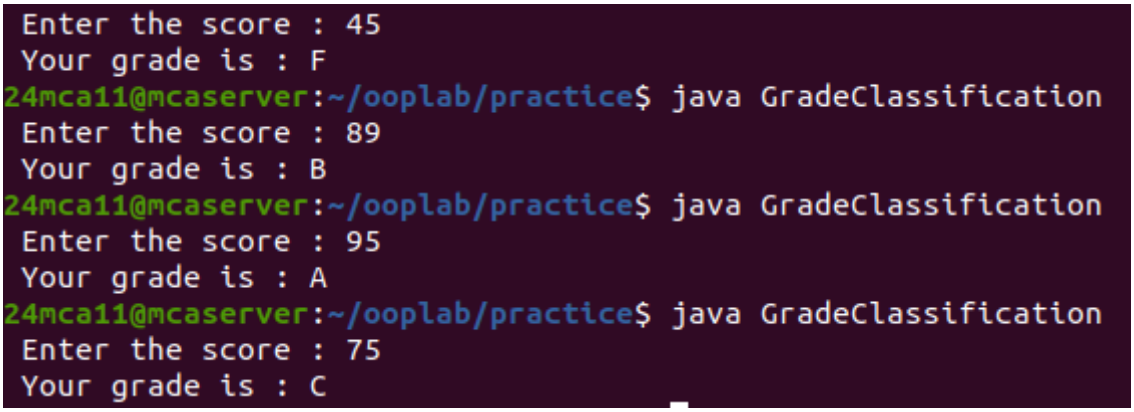
AIM : Assigning Grades Based on Numeric Score

DATE : 10/02/2025

SOURCE CODE :

```
import java . util . Scanner ;
public class GradeClassification
{
	public static void main ( String [] args )
	{
		Scanner scanner = new Scanner ( System . in ) ;
		System . out . print ( " Enter the score : " ) ;
		int score = scanner . nextInt () ;
		char grade ;
		switch ( score / 10)
		{
		case 10:
		case 9:
			grade = 'A';
			break ;
		case 8:
			grade = 'B';
			break ;
		case 7:
			grade = 'C';
			break ;
		case 6:
			grade = 'D';
			break ;
		default :
			grade = 'F';
			break ;
		}
		System . out . println ( " Your grade is : " + grade ) ;
	}
}
```

OUTPUT :


Enter the score : 45
Your grade is : F
24mca11@mcaserver:~/ooplab/practice$ java GradeClassification
Enter the score : 89
Your grade is : B
24mca11@mcaserver:~/ooplab/practice$ java GradeClassification
Enter the score : 95
Your grade is : A
24mca11@mcaserver:~/ooplab/practice$ java GradeClassification
Enter the score : 75
Your grade is : C