

ASSIGNMENT – 1

Program 1 :

Source Code :

```
import java.util.Scanner;
public class OddEven{
    public static void main(String args[]){
        Scanner sc =new Scanner(System.in);
        System.out.print("Enter a number : ");
        int num = sc.nextInt();
        if(num %2 ==0)
            System.out.println(num+" is even");
        else
            System.out.println(num+" is odd");
    }
}
```

Output :

```
24mca27@mcaserver:~/oops$ java OddEven
Enter a number : 53
53 is odd
```

Program 2 :

Source Code :

```
import java.util.Scanner;
public class SumOfFirstNNaturalNumbers {
    public static void main(String args[]){
        System.out.print("Enter a value for N : ");
        Scanner sc = new Scanner(System.in);
        int n=sc.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 :

```
24mca27@mcaserver:~/oops$ java SumOfFirstNNaturalNumbers
Enter a value for N : 6
The sum of the first 6 numbers is : 21
```

Program 3 :

Source Code :

```
import java.util.Scanner;
public class Fact{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter a number : ");
        int num=sc.nextInt();
        int fact=1;
        for(int i=1;i<=num;i++)
            fact*=i;
        if(num==0)
            System.out.println(" the factorial is 1");
        else
            System.out.println(" the factorial is "+fact);
    }
}
```

Output :

```
24mca27@mcaserver:~/oops$ java Fact
Enter a number : 5
the factorial is 120
```

Program 4 :

Source Code :

```
import java.util.Scanner;
public class Grade{
public static void main ( String [] args ) {
    Scanner scanner = new Scanner ( System . in ) ;
    System . out . print ( " Enter the score : " ) ;
    int score = scanner . nextInt ( ) ;
    String 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 :

```
24mca27@mcaserver:~/oops$ java Grade
Enter the score : 79
Your grade is : C
```