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Roll No – 19   Practical No - 1

1] PROGRAM TO FIND FACTORIAL OF A NUMBER


```java
import java.util.Scanner;
class Factorial
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a num to find its factorial: ");
        int num = sc.nextInt();
        int fact=1;
        if(num==1 || num==0)
        {
            fact = 1;
        }
        else
        {
            for(int i=num ; i>0 ; i--)
            {
                fact=fact*i;
            }
        }
        System.out.print("Factorial of "+num+" = "+fact);
    }
}
```


Output:

Enter a num to find its factorial: 6

Factorial of 6 = 720

2]TO FIND SUM AND AVERAGE OF A NUMBER

Input:

```java
import java.util.Scanner;
class Factorial
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int num;
        System.out.print("Enter a number : ");
        num = sc.nextInt();
        int r ,sum=0, avg, count=0;
        while(num != 0)
        {
            r = num%10;
            sum = sum+r;
            num = num/10;
            count++;
        }
        System.out.println("Sum = "+sum);
        avg = sum/count;
        System.out.println("Average = "+avg);
    }
}
```

Output:

Enter a number : 453

Sum = 12

Average = 4

3]TO FIND FIRST 50 PRIME NUMBERS

```java
import java.util.Scanner;
public class primenum {
        public static void main(String[] args) {
                int num = 50;
                int count;
                for(int i=1;i<=num;i++) {
                        count=0;
                        for(int j=2;j<=i/2;j++) {
                                if(i%j==0) {
                                        count++;
                                        break;
                                }
                        }
                        if(count==0) {
                                System.out.print(i+" ");
                        }
                }
        }
}
```

Output:

1 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47