

Name: Rasal Pallavi Sampat

Roll no:TE22122

Class:TEENTC

Subject:FJP

1)Write a program in java to find factorial of number.

Code:

```
package practical1;
import java.util.Scanner;
public class P1 {

    public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the number: ");
        int n=sc.nextInt();
        int fact=1;
        for( int i=1;i<=n;i++)

        {
            fact=fact*i;

        }
        System.out.println("Factorial of the number: "+fact);
    }

}
```

Output:

Enter the number:

5

Factorial of the number: 120

2)Write a program in java to take sum and average of N numbers

Code:

```
package project1;
import java.util.Scanner;
public class Average {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
```

```

        Scanner sc = new Scanner(System.in);

int i, n, sum = 0;
int[] N = new int[20];
float avg;

System.out.print("Enter the no. of elements: ");
n = sc.nextInt();

System.out.print("Enter " + n + " elements: \n");
for (i = 0; i < n; i++) {
    N[i] = sc.nextInt();
    sum = sum + N[i];
}

// for (i = 0; i < n; i++) {
//     sum = sum + N[i];
// }

avg = (float) sum / n;

System.out.println("Sum: " + sum);
System.out.println("Average: " + avg);
}
}

```

Output:

```

Enter the no. of elements: 5
Enter 5 elements:
3
5
6
7
8
Sum: 29
Average: 5.8

```

3)Write a program to display first 50 prime numbers

Code:

```
package project1;
import java.util.Scanner;
public class Prime4 {

    public static void main(String[] args) {
        int i,n,counter,j;
        n=50;
        System.out.printf("enter the n value is %d",n);
        System.out.printf("\nPrime number between 1 to %d are",n);
        for(j=2;j<=n;j++) {
            counter=0;
            for(i=1;i<=j;i++) {
                if(j%i==0) {
                    counter++;
                }
            }
            if(counter==2)
                System.out.print(j+" ");
        }

    }

}
```

Output:

enter the n value is 50

Prime number between 1 to 50 are:2 3 5 7 11 13 17 19 23 29 31 37 41 43 47