

Experiment No 1

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Roll No:57

1) Code:

```
package demo;
```

```
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 n = sc.nextInt();
```

```
        int fact = 1;
```

```
        for(int i = 1; i <= n; i++) {
```

```
            fact = fact* i;
```

```
        }
```

```
        System.out.println("Factorial of " + n + " is " + fact);
```

```
    }
```

```
}
```

Output:

```
Enter a number: 5
```

```
Factorial of 5 is 120
```

2) Code:

```
package demo;
```

```
public class Prime {  
    public static void main(String[] args) {  
        int count = 0, num = 2;  
  
        while(count < 50) {  
            if(isPrime(num)) {  
                System.out.print(num + " ");  
                count++;  
            }  
            num++;  
        }  
    }  
  
    static boolean isPrime(int n) {  
        for(int i = 2; i <= n / 2; i++) {  
            if(n % i == 0) return false;  
        }  
        return true;  
    }  
}
```

Output:

2	89
3	97
5	101
7	103
11	107
13	109
17	113
19	127
23	131
29	137
31	139
37	149
41	151
43	157
47	163
53	167
59	173
61	179
67	181
71	191
73	193
79	197
83	199
89	211
97	223
101	227
103	229
107	

3) Code:

```
package demo;

import java.util.Scanner;

public class Sumavg {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter n: ");

        int n = sc.nextInt();

        int sum = 0;

        for(int i = 1; i <= n; i++) {

            System.out.print("Enter number " + i + ": ");

            sum += sc.nextInt();

        }

        System.out.println("Sum = " + sum);

        System.out.println("Average = " + (sum / (double)n));

    }

}
```

Output:

```
Enter n: 4
Enter number 1: 10
Enter number 2: 15
Enter number 3: 25
Enter number 4: 20
Sum = 70
Average = 17.5
```