

1.

```
class labfirstprogram{  
    public static void main(String arg[]){  
        float a = 10;  
        float b = 15;  
        float add,mul,sub;  
        float div;  
        add = a+b;  
        mul= a*b;  
        sub=a-b;  
        div=b/a;  
        System.out.println(" sum of two numbers is  "+ add);  
        System.out.println("\n Product of two numbers is "+mul );  
        System.out.println("\n Division of two given numbers is : "+div);  
        System.out.println("\n Subtraction of two given number is "+sub);  
    }  
}
```

Output:

```
C:\Users\Student\Desktop\Java_lab>java labfirstprogram
```

```
sum of two numbers is  25.0
```

```
Product of two numbers is  150.0
```

```
Division of two given numbers is : 1.5
```

```
Subtraction of two given number is -5.0
```

```
C:\Users\Student\Desktop\Java_lab>
```

2.

```

class SecondProgram{
    public static void main(String arg[]){
        float p = 1000;
        float t = 15;
        float r = 12;
        float sp;
        sp = (p*t*r)/100;
        System.out.println(" the simple interest of given credentials is  "+ sp);
    }
}

```

Output:

```
C:\Users\Student\Desktop\Java_lab>java SecondProgram
```

```
the simple interest of given credentials is  1800.0
```

```
C:\Users\Student\Desktop\Java_lab>
```

3.

```

class ThirdProgram {
    public static void main(String[] args) {

        int n = 10, firstTerm = 0, secondTerm = 1;
        System.out.println("Fibonacci Series till " + n + " terms:");

        for (int i = 1; i <= n; ++i) {
            System.out.print(firstTerm + " ");

            int nextTerm = firstTerm + secondTerm;
            firstTerm = secondTerm;
            secondTerm = nextTerm;
        }
    }
}

```

```
}  
}
```

Output :

Fibonacci Series till 10 terms:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34,

C:\Users\Student\Desktop\Java_lab>

4.

```
public class FourthProgram {  
    public static void main(String[] args) {  
        System.out.println("Multiplication Table of 3:");  
        for (int i = 1; i <= 10; i++) {  
            System.out.println("3 x " + i + " = " + (3 * i));  
        }  
  
        System.out.println("\nMultiplication Table of 5:");  
        for (int i = 1; i <= 10; i++) {  
            System.out.println("5 x " + i + " = " + (5 * i));  
        }  
    }  
}
```

Output:

Multiplication Table of 3:

3 x 1 = 3

3 x 2 = 6

3 x 3 = 9

3 x 4 = 12

3 x 5 = 15

3 x 6 = 18

3 x 7 = 21

3 x 8 = 24

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

Multiplication Table of 5:

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

5.

```
class FifthProgram {  
    public static void main(String[] args) {  
        int number = 5; // Example number  
        long factorial = 1;  
  
        for (int i = 1; i <= number; i++) {  
            factorial *= i;  
        }  
  
        System.out.println("Factorial of " + number + " is: " + factorial);  
    }  
}
```

output:

C:\Users\HP\OneDrive\Desktop\javalab>java FifthProgram

Factorial of 5 is: 120

C:\Users\HP\OneDrive\Desktop\javalab>

Program 5:

```
class FifthProgram {
```

```
    public static void main (String ar[]) {
```

```
        int num = 10;
```

```
        long factorial = 1;
```

```
        for (int i = 1; i <= num; i++)
```

```
        {
```

```
            factorial *= i;
```

```
            System.out.println("Factorial of 10 = " + factorial);
```

```
        }
```

```
    }
```

Output :

Factorial of 10 = 3628800

~~22/9/25~~

```

1) class labfirstprogram {
    public static void main (String arg []) {
        float a = 10;
        float b = 15;
        float add, mul, sub;
        float div;
        add = a + b;
        mul = a * b;
        sub = a - b;
        div = b/a;

        System.out.println ("sum of two numbers is " + add);
        System.out.println ("\n Product of two number is " + mul);
        System.out.println ("\n Division of two given number is: " + div);
        System.out.println ("\n Subtraction of two given number is " + sub);

    }
}

```

Output :

sum of two numbers is 25.0

Product of two ~~given~~ numbers is : 150

Division of two given numbers is : 1.5

Subtraction of two given number is : -5.0


```

}
{

```

Output :

Fibonacci series till 10 terms :

0, 1, 1, 2, 3, 5, 8, 13, 21, 34

Program 4:

```

public class FourthProgram {

```

```

    public static void main(String[] args) {

```

```

        System.out.println("Multiplication Table of 3:");

```

```

        for(int i=1; i<=10; i++){

```

```

            System.out.println("3 x " + i + " = " + (3*i));

```

```

        }

```

```

        System.out.println("\n Multiplication table of 5:");

```

```

        for(int i=1; i<=10; i++){

```

```

            System.out.println("5 x " + i + " = " + (5*i));

```

```

        }

```

```

    }

```

```

}

```

Output :

Multiplication table of 3

3 x 1 = 3

3 x 10 = 30

3 x 2 = 6

3 x 3 = 9

3 x 4 = 12

3 x 5 = 15

3 x 6 = 18

3 x 7 = 21

3 x 8 = 24

3 x 9 = 27

Multiplication table of 5

5 x 1 = 5

5 x 9 = 45

5 x 2 = 10

5 x 10 = 50

5 x 3 = 15

5 x 4 = 20

5 x 5 = 25

5 x 6 = 30

5 x 7 = 35

5 x 8 = 40

Program 2:

```
class SecondProgram {  
    public static void main (String arg[]) {  
        float p = 1000;  
        float t = 15;  
        float r = 12;  
        float sp;  
        sp = (p * t * r) / 100;  
        System.out.println("the simple interest of given  
        credentials is " + sp);  
    }  
}
```

Output:

The simple interest of given credentials is 1800.0

Program 3:

```
class ThirdProgram {  
    public static void main (String[] args) {  
        int n = 10, firstTerm = 0, secondTerm = 1;  
        System.out.println("Fibonacci Series till " + n + " term:");  
        for (int i = 1; i <= n; ++i) {  
            System.out.print (firstTerm + ", ");  
            int nextTerm = firstTerm + secondTerm;  
            firstTerm = secondTerm;  
            secondTerm = nextTerm;  
        }  
    }  
}
```