# 1. First Program

```
class FirstProgram
{
    public static void main(String arg[])
    {
        System.out.println("Hello World");
    }
}
```

#### Output:

```
Microsoft Windows [Version 18.8.22631.5989]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student.DESKTOP-597.JVNU\Desktop

C:\Users\student.DESKTOP-597.JVNU\Desktop\javaprogram>javac FirstProgram.java

C:\Users\student.DESKTOP-597.JVNU\Desktop\javaprogram>javac FirstProgram.java

C:\Users\student.DESKTOP-597.JVNU\Desktop\javaprogram>java FirstProgram
Hello World

C:\Users\student.DESKTOP-597.JVNU\Desktop\javaprogram>java FirstProgram
```

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```

## 2. Simple Calculator

```
class Calculator
{
    public static void main(String arg[])
    {
        int a=10,b=8;
        System.out.println("Simple Calculator");
        System.out.println("Sum of a and b is "+(a + b));
        System.out.println("Difference of a and b is "+(a - b));
        System.out.println("Product of a and b is "+(a*b));
        System.out.println("Quotient of a and b is "+(a/b));
    }
}
```

#### Output:

```
Microsoft Windows [Version 18.8.22631.5989]
(c) Microsoft Corporation. All rights reserved.

C:\Users\student.DESKTOP-597JVNU\Desktop\cd javaprogram

C:\Users\student.DESKTOP-597JVNU\Desktop\javaprogram>javac Calculator.java

C:\Users\student.DESKTOP-597JVNU\Desktop\javaprogram>javac Calculator.java

C:\Users\student.DESKTOP-597JVNU\Desktop\javaprogram>javac Calculator
Simple Calculator
Simple Calculator
Sum of a and b is 18
Difference of a and b is 2
Product of a and b is 89
Quotient of a and b is 1

C:\Users\student.DESKTOP-597JVNU\Desktop\javaprogram>
```

# 3. Simple Interest

```
class SimpleInterest
{
   public static void main(String[] args)
   {
      double principal = 10000;
      double rate = 5;
      double time = 2;
      double simpleInterest = (principal * rate * time) / 100;
      System.out.println("Principal: " + principal);
      System.out.println("Rate: " + rate + "%");
      System.out.println("Time: " + time + " years");
      System.out.println("Simple Interest is: " + simpleInterest);
   }
}
```

### Output:

Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop

C:\Users\Admin\Desktop>cd java programs
The system cannot find the path specified.

C:\Users\Admin\Desktop>cd java program

C:\Users\Admin\Desktop\java program

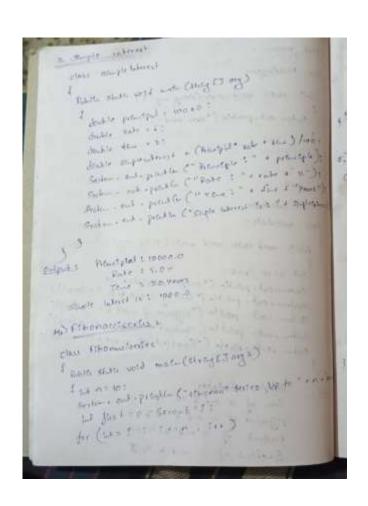
C:\Users\Admin\Desktop\java program>javac SimpleInterest.java

C:\Users\Admin\Desktop\java program>java SimpleInterest

Principal: 10000.0

Rate: 5.0%
Time: 2.0 years
Simple Interest is: 1000.0

C:\Users\Admin\Desktop\java program>



#### 4. FibonacciSeries

```
class FibonacciSeries
{
    public static void main(String[] args)
    {
        int n = 10;
        System.out.println("Fibonacci Series up to " + n + " terms:");
        int first = 0, second = 1;
        for (int i = 1; i <= n; i++)
        {
            System.out.print(first + " ");
            int next = first + second;
            first = second;
            second = next;
        }
    }
}</pre>
```

### Output:

```
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop

C:\Users\Admin\Desktop>cd java program

C:\Users\Admin\Desktop\java program>javac FibonacciSeries.java

C:\Users\Admin\Desktop\java program>java FibonacciSeries
Fibonacci Series up to 10 terms:
0 1 1 2 3 5 8 13 21 34

C:\Users\Admin\Desktop\java program>
```

```
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Second = next:

(1 1 2 3 5 8 16 21 34

5) Multiplication table

Class Multiplication tables

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for (and 1=1; 1 <= 10; 1+1)

for (and 1=1)

for (and
```

# 5. Multiplication Table

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

## Output:

```
C:\Users\Admin>cd desktop
C:\Users\Admin\Desktop>cd java programs
The system cannot find the path specified.
C:\Users\Admin\Desktop>cd java program
C:\Users\Admin\Desktop\java program>javac MultiplicationTables.java
C:\Users\Admin\Desktop\java program>java MultiplicationTables
Multiplication Table of 3:
3 \times 1 = 3
3 \times 2 = 6
3 \times 3 = 9
3
 x 4 = 12
3
  x 5 = 15
3
 x 6 = 18
3
 x 7 = 21
 x 8 = 24
3
 x 9 = 27
 x 10 = 30
Multiplication Table of 5:
 x 2 = 10
5
  x 3 = 15
5
  x 4 = 20
  x 5 = 25
5
  x 6 = 30
5
 x 7 = 35
5
 x 8 = 40
 x 9 = 45
5 \times 10 = 50
C:\Users\Admin\Desktop\java program>
```

#### 6. Factorial

```
class Factorial
{
  public static void main(String[] args)
  {
    int number = 5;
    if (number < 0)
    {
       System.out.println("Factorial is not defined for negative numbers.");
    }
    else
    {
       int factorial = 1;
       for (int i = 1; i <= number; i++)
    }
}</pre>
```

```
{
    factorial *= i;
}

System.out.println("Factorial of " + number + " is: " + factorial);
}
}
}
```

#### Output:

```
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin>cd desktop

C:\Users\Admin\Desktop>cd java program

C:\Users\Admin\Desktop\java program>javac Factorial.java

C:\Users\Admin\Desktop\java program>javac Factorial
Factorial of 5 is: 120

C:\Users\Admin\Desktop\java program>
```

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