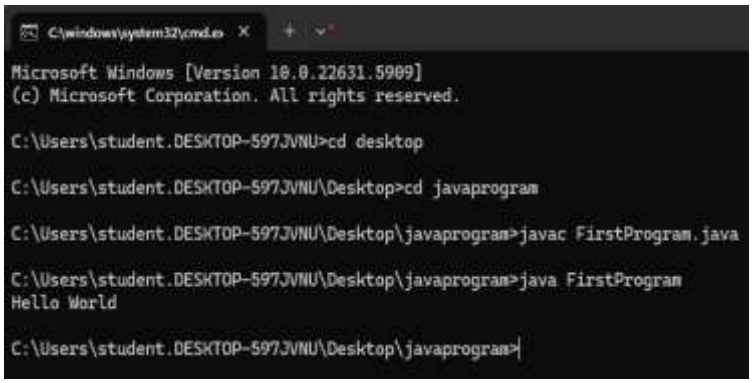
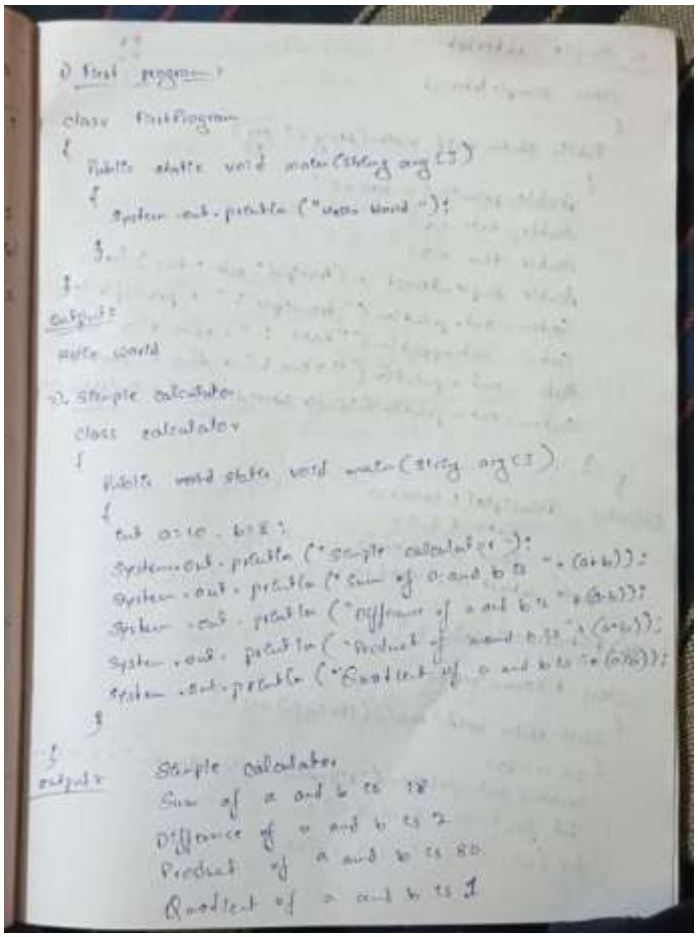
1. First Program

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

Output :

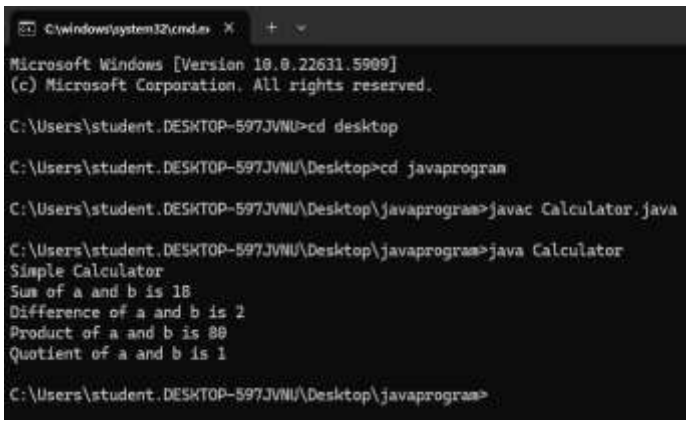




2. Simple Calculator

```
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:

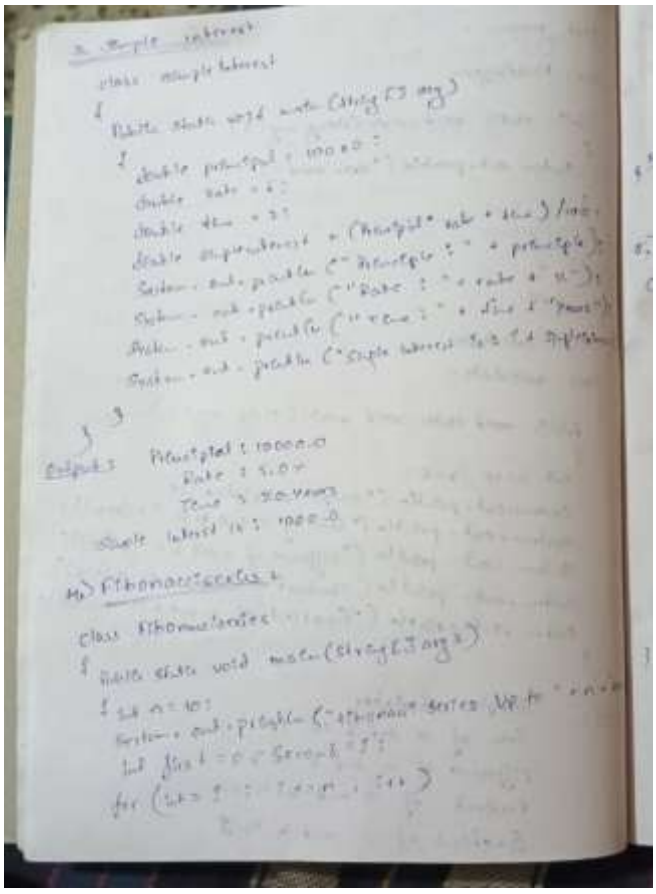


3. Simple Interest

```
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 :

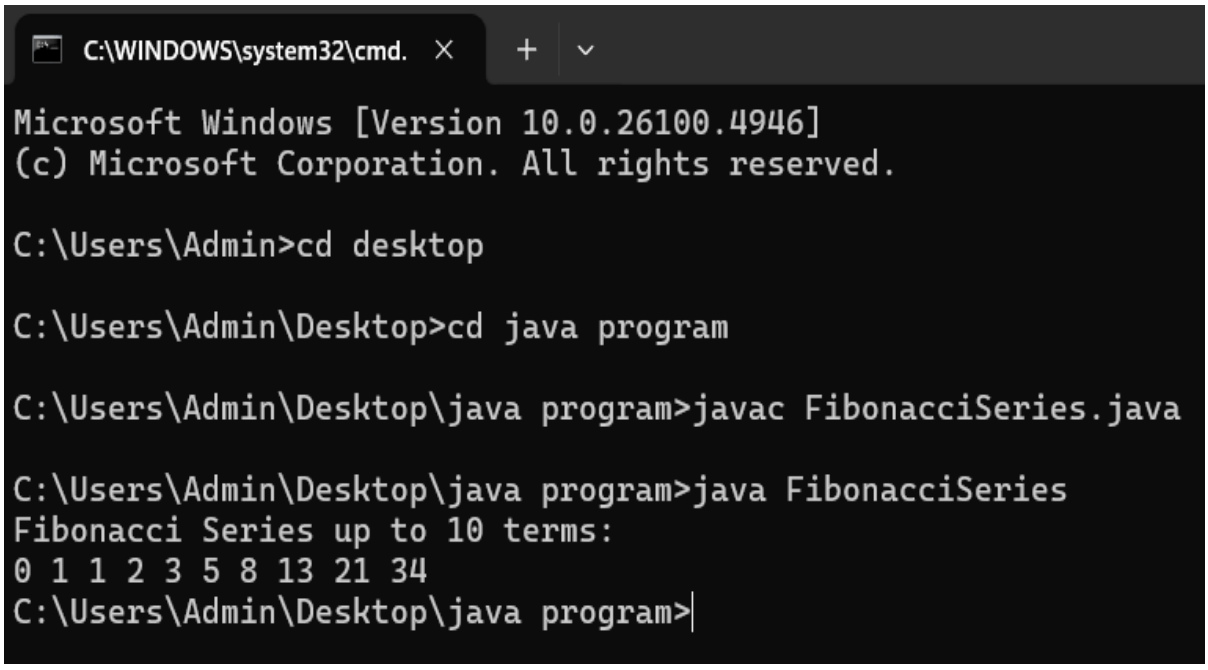
```
C:\WINDOWS\system32\cmd.

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>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>
```

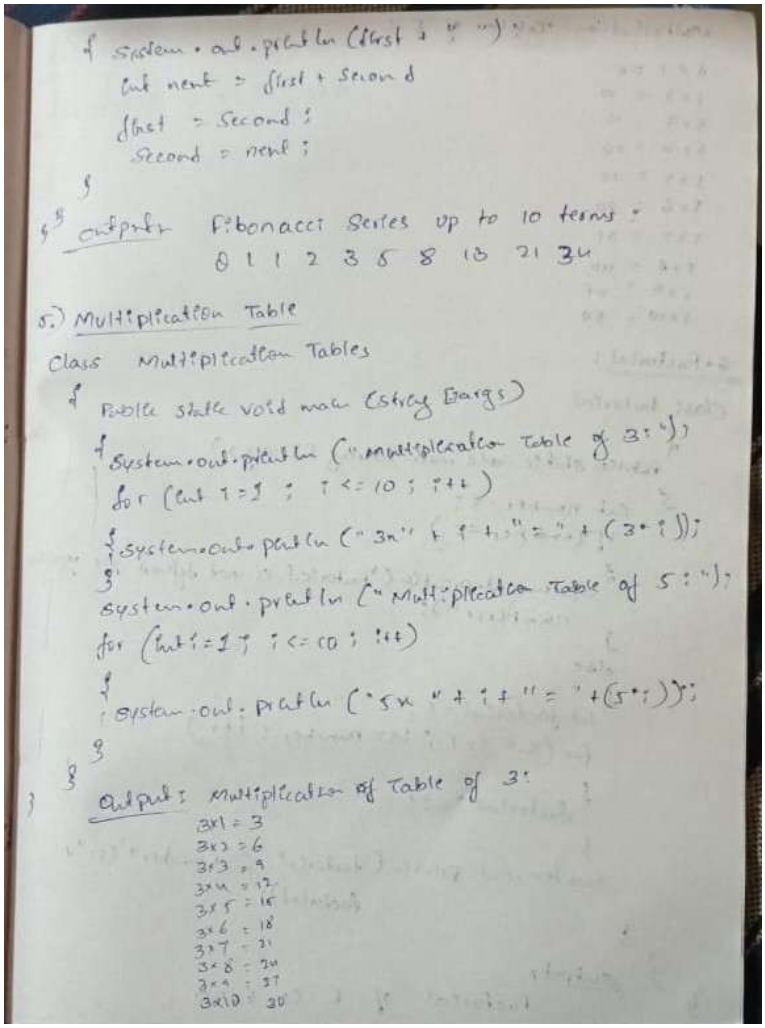


4. FibonacciSeries

```
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;
      }
   }
}
```

Output :





5. Multiplication Table

```
class MultiplicationTables
{
   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("Multiplication Table of 5:");
      for (int i = 1; i <= 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 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 x 9 = 27
3 x 10 = 30
Multiplication Table of 5:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 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++)
```

```
            {
               factorial *= i;
            }

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

Output :

```
C:\WINDOWS\system32\cmd.
Microsoft Windows [Version 10.0.26100.4946]
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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>java Factorial
Factorial of 5 is: 120

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