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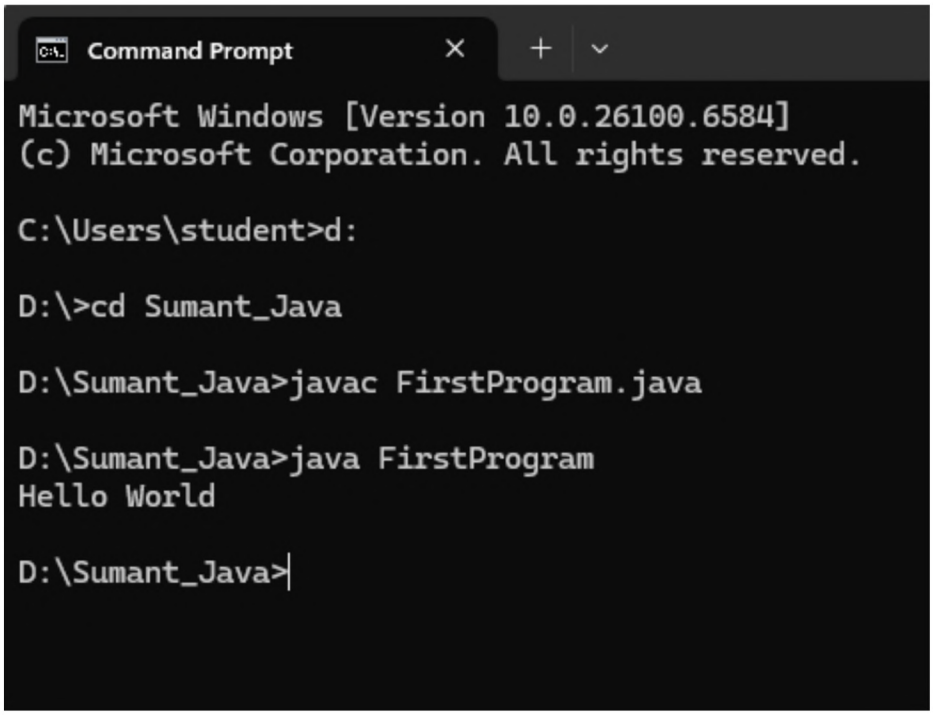
BATCH: 3K-1

LAB DATE: 22/9/25

1. First Program



CODE:

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

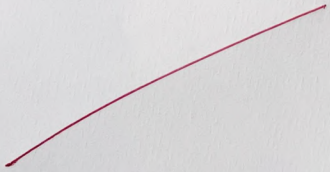
22/9/25 OOJ

First Program

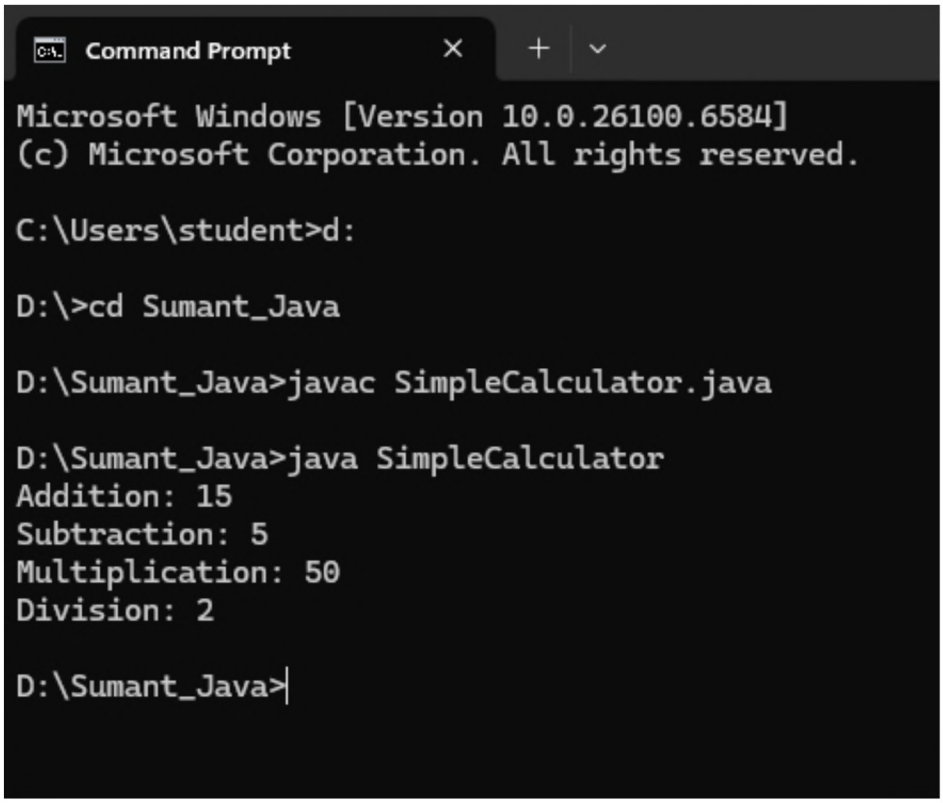
```
class First Program
{
    public static void main(String arg[]) {
        System.out.println("Hello World");
    }
}
```

O/P:

Hello World



2. Simulate a simple calculator and show the add, subtract, multiply and divide options.



CODE:

```
class SimpleCalculator
{
   public static void main(String arg[]) {
      int a = 10, b = 5;
      System.out.println("Addition: " + (a + b));
      System.out.println("Subtraction: " + (a - b));
      System.out.println("Multiplication: " + (a * b));
      System.out.println("Division: " + (a / b));
   }
}
```

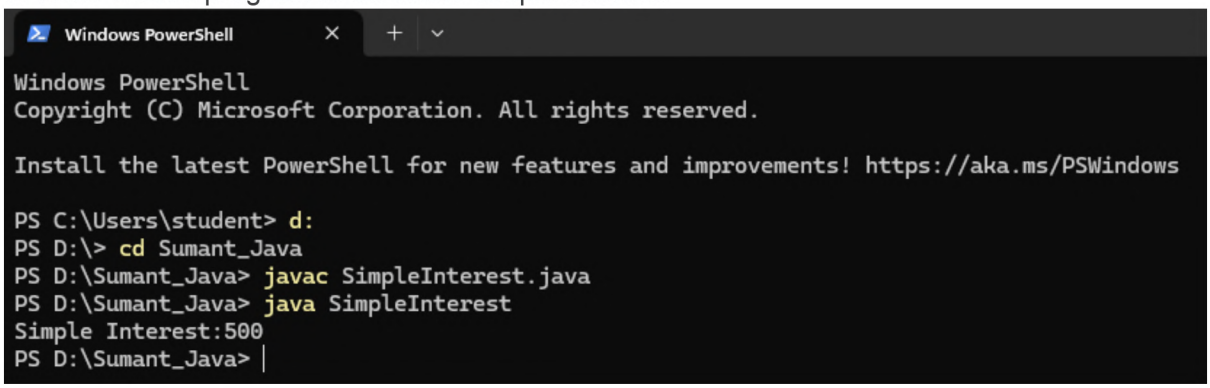
2. Simple Calculator

```
class SimpleCalculator
{
    public static void main (String arg[]) {
        int a=10, b=5;
        System.out.println ("Addition:" + (a+b));
        System.out.println ("Subtraction:" + (a-b));
        System.out.println ("Multiplication:" + (a*b));
        System.out.println ("Division:" + (a/b));
    }
}
```

O/p:

Addition: 15
Subtraction: 5
Multiplication: 50
Division: 2

3. Write a Java program to calculate simple interest.



CODE:

```
class SimpleInterest
{
    public static void main(String arg[]) {
        int p = 1000, r = 5, t= 10;
        System.out.println("Simple Interest:" + (p*r*t/100));

    }
}
```

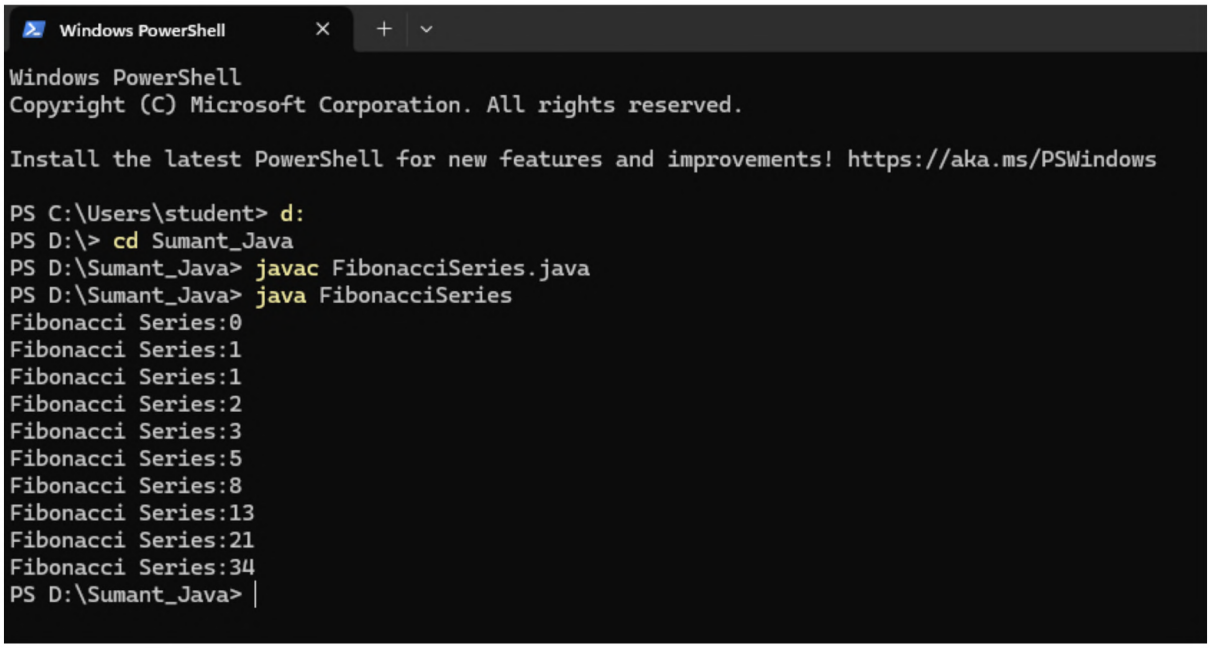
3. Simple Interest

```
class SimpleInterest
{
    public static void main(String arg[]){
        int p=1000, r=5, t=10.
        System.out.println("Simple Interest:"+(p*r*t/100).
    }
}
```

O/p:

Simple Interest: 500

4. Write a Java program to generate Fibonacci series.



CODE:

```
class FibonacciSeries
{
   public static void main(String arg[]) {
      int a=0, b=1;
          int n=10;


          for(int i=1;i<=n;i++){
                  System.out.println("Fibonacci Series:"+a+" ");


                  int c=a+b;
                  a=b;
                  b=c;
          }


   }
}
```

4. Fibonacci Series

```
class FibonacciSeries
{
    public static void main(String arg[]){
        int a=0, b=1;
            int n=10;
        for(int i=1; i<=n; i++){
            System.out.println("Fibonacci Series: "+a+" ");
            int c=a+b;
            a=b;
            b=c;
        }
    }
}
```

O/p:

```
Fibonacci Series : 0
Fibonacci Series : 1
Fibonacci Series : 1
Fibonacci Series : 2
Fibonacci Series : 3
Fibonacci Series : 5
Fibonacci Series : 8
Fibonacci Series : 13
Fibonacci Series : 21
Fibonacci Series : 34
```

5. Write a Java program to print multiplication table of 3 and 5.

```
C:\Users\student>d:

D:\>cd Sumant_Java

D:\Sumant_Java>javac MultiplicationTable.java

D:\Sumant_Java>java MultiplicationTable
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
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
```

CODE:

```
class MultiplicationTable{
	public static void main (String arg[]){
		int n=10;
		for(int i=1; i<=10; i++){
			System.out.println("3 x " + i + "=" + (3*i));}
		for(int i=1; i<=10; i++){
			System.out.println("5 x " + i + "=" + (5*i));}
	}
}
```

5. Multiplication Table of 3 and 5

```
class MultiplicationTable{
    public static void main (String arg[]){
        int n = 10;
        for(int i = 1; i<=10; i++){
            System.out.println("3 x "+i+"="+
                                (3*i));
        }
        for(int i=1; i<=10; i++){
            System.out.println("5x "+i+" = " +(5*i));
        }
    }
}
```

O/P:

```
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
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
```

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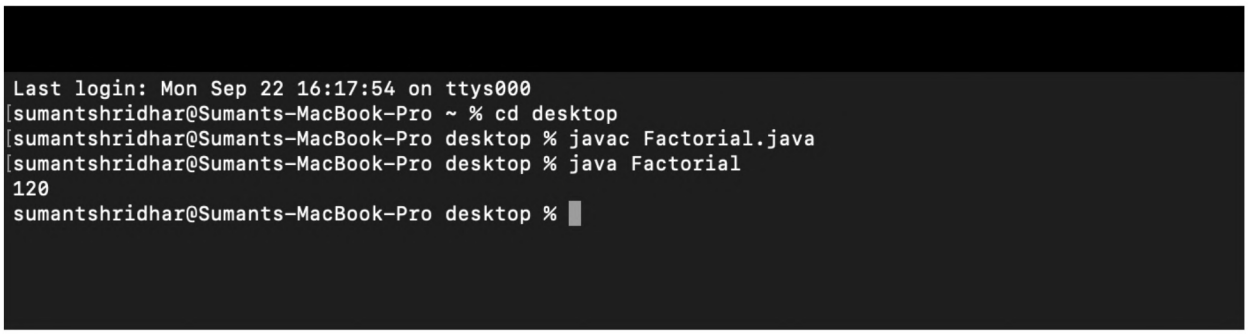
6. Write a Java program to print factorial of a given number.



CODE:

```
class Factorial{
        public static void main (String arg[]){
                int n = 5,f=1;
                for (int i=1; i<=n; i++){
                        f*=i;}
                System.out.println(f);
        }
}
```

6. Factorial of a Number

```
class Factorial{
    public static void main (String arg[]){
        int n=5, f=1;
        for(int i = 1; i<=n; i++){
            f*=i ; }
        System.out.println(f);
    }
}
```

O/p:

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