

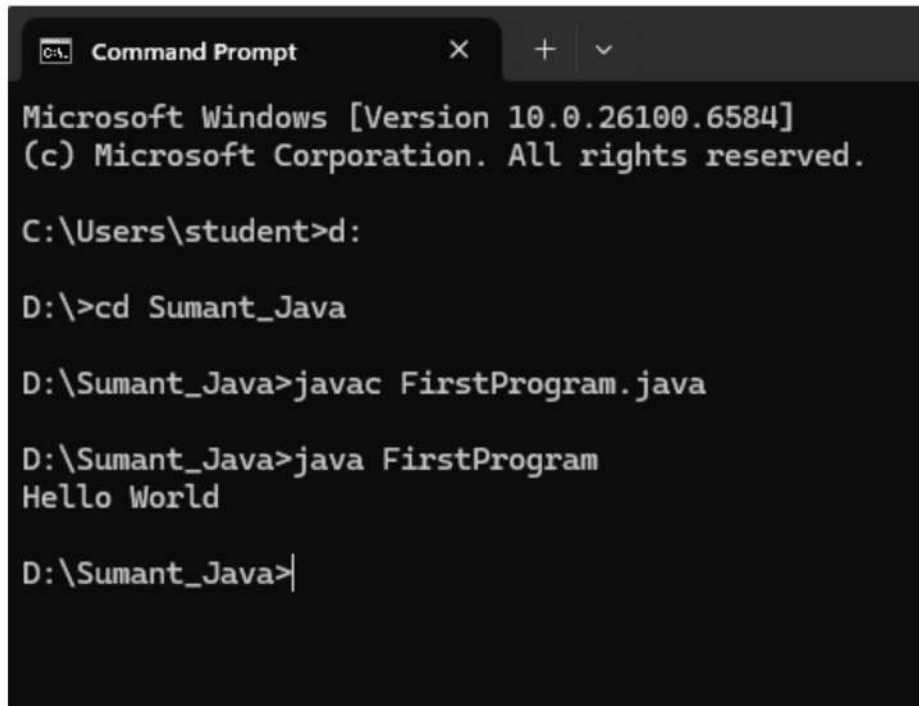
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BATCH: 3K-1

LAB DATE: 22/9/25

1. First Program



```
Microsoft Windows [Version 10.0.26100.6584]
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C:\Users\student>d:

D:\>cd Sumant_Java

D:\Sumant_Java>javac FirstProgram.java

D:\Sumant_Java>java FirstProgram
Hello World

D:\Sumant_Java>
```

CODE:

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

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First Program

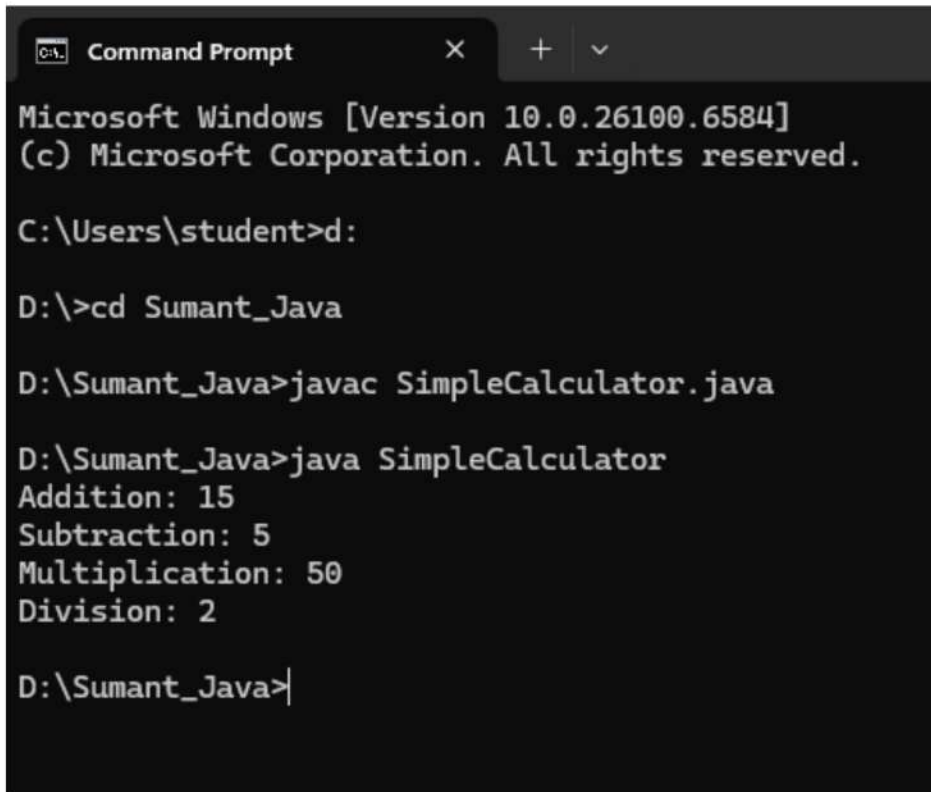
```
class First Program  
{  
    public static void main(String arg[]) {  
        System.out.println("Hello World");  
    }  
}
```

O/p:

Hello World



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



```
Command Prompt
Microsoft Windows [Version 10.0.26100.6584]
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C:\Users\student>d:

D:\>cd Sumant_Java

D:\Sumant_Java>javac SimpleCalculator.java

D:\Sumant_Java>java SimpleCalculator
Addition: 15
Subtraction: 5
Multiplication: 50
Division: 2

D:\Sumant_Java>
```

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:

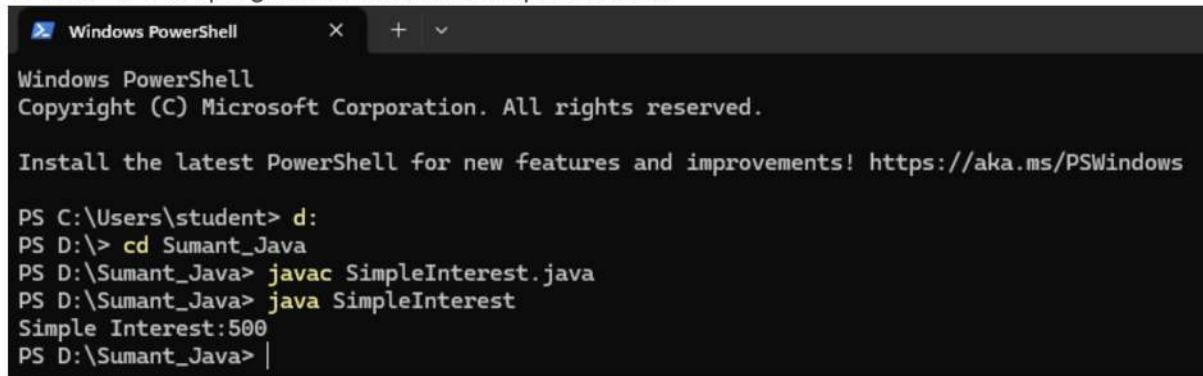
Addition: 15

Subtraction: 5

Multiplication: 50

Division: 2

3. Write a Java program to calculate simple interest.

A screenshot of a Windows PowerShell terminal window. The title bar says "Windows PowerShell" with a close button and window controls. The terminal text shows the user navigating to the directory "D:\Sumant_Java" and running "javac SimpleInterest.java" followed by "java SimpleInterest". The output of the program is "Simple Interest:500".

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\student> d:
PS D:\> cd Sumant_Java
PS D:\Sumant_Java> javac SimpleInterest.java
PS D:\Sumant_Java> java SimpleInterest
Simple Interest:500
PS D:\Sumant_Java> |
```

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

~~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));
```

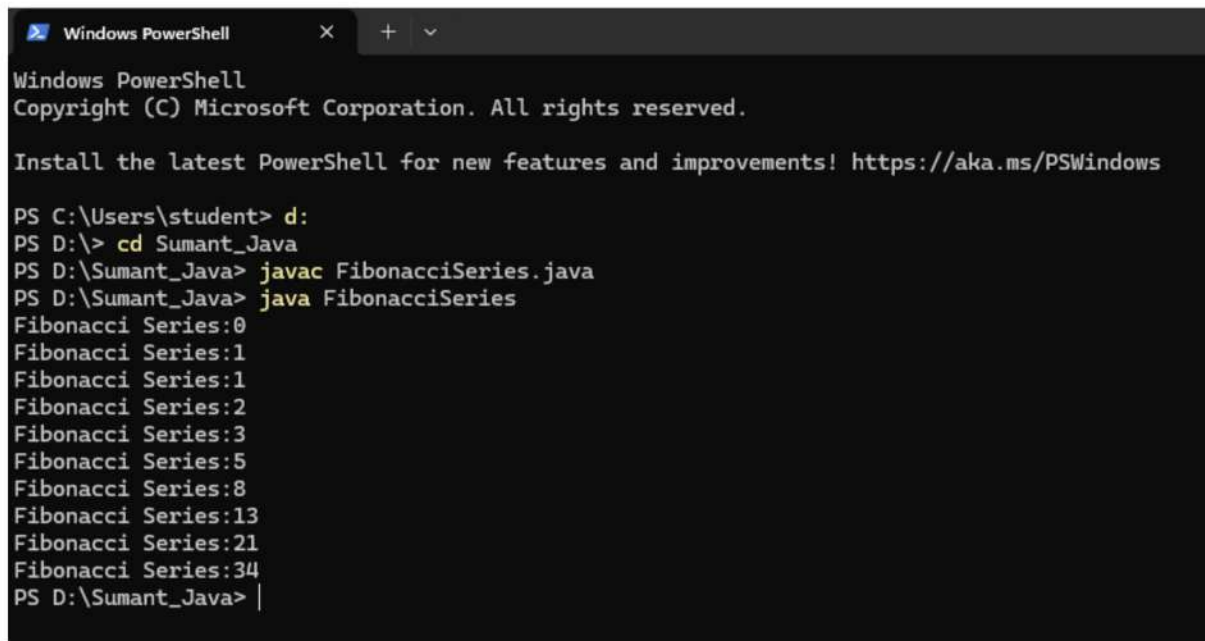
```
    }
```

```
}
```

O/p:

Simple Interest: 500

4. Write a Java program to generate Fibonacci series.



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\student> d:
PS D:\> cd Sumant_Java
PS D:\Sumant_Java> javac FibonacciSeries.java
PS D:\Sumant_Java> java FibonacciSeries
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
PS D:\Sumant_Java> |
```

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;
        }
    }
}
```

Op>

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 args[]){
        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));
        }
    }
}
```

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.

```
Last login: Mon Sep 22 16:17:54 on ttys000
sumantshridhar@Sumants-MacBook-Pro ~ % cd desktop
sumantshridhar@Sumants-MacBook-Pro desktop % javac Factorial.java
sumantshridhar@Sumants-MacBook-Pro desktop % java Factorial
120
sumantshridhar@Sumants-MacBook-Pro desktop % █
```

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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