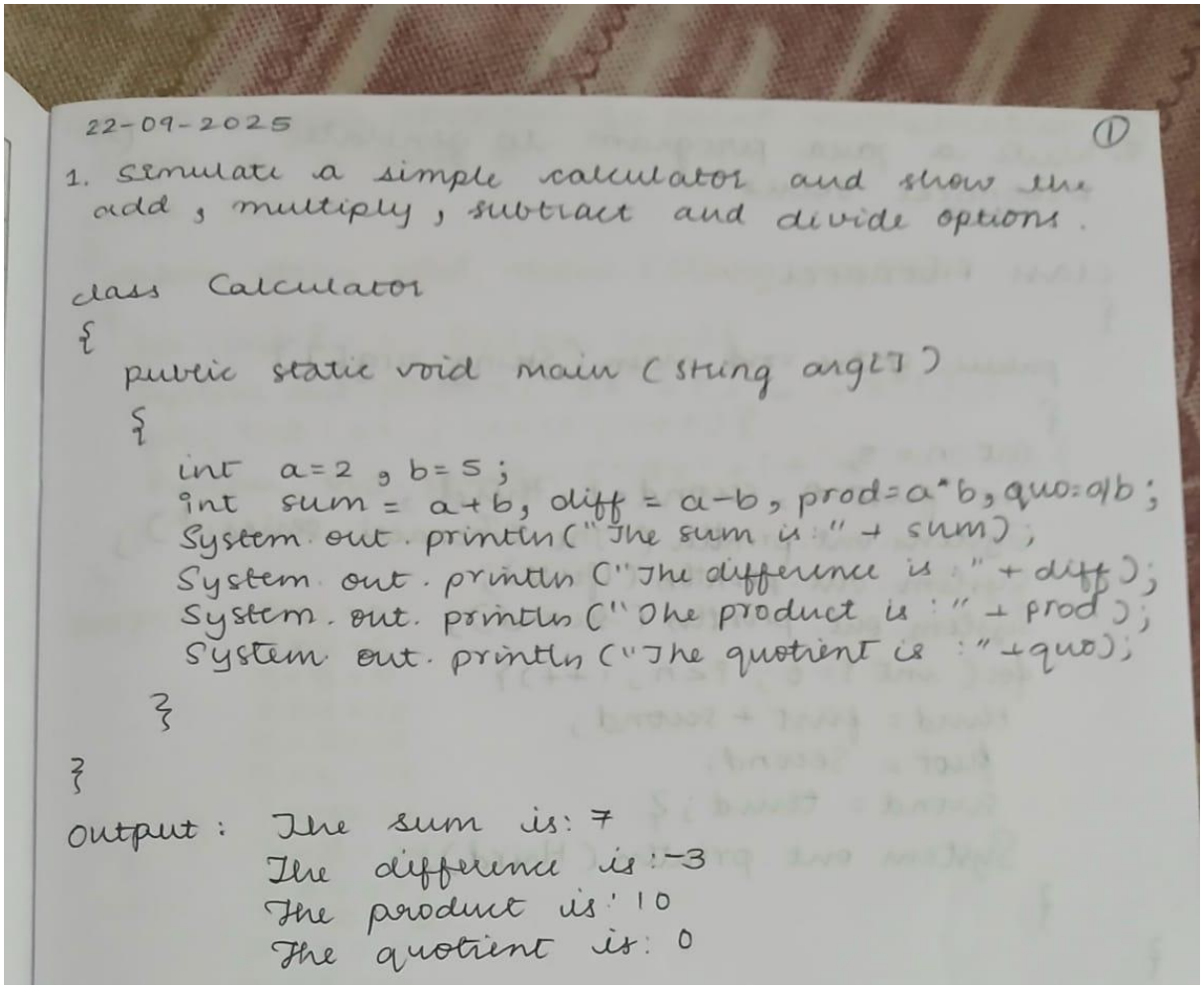
```java
class Calculator
{
    public static void main(String arg[])
    {
         int a=2, b=5;
         int sum=a+b, diff=a-b, prod=a*b, quo=a/b;


         System.out.println("the sum is:" + sum );
         System.out.println("the difference is:" + diff);
         System.out.println("the product is:" + prod);
         System.out.println("the quotient is:" + quo);
    }
}
```

```
C:\Users\student\Documents\Srinidhi>javac Calculator.java

C:\Users\student\Documents\Srinidhi>java Calculator
the sum is:7
the difference is:-3
the product is:10
the quotient is:0
```



22-09-2025 ①

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

```
class Calculator
{
   public static void main (String arg[])
   {
      int a=2 , b=5 ;
      int sum = a+b, diff = a-b, prod=a*b, quo=a/b;
      System.out.println("The sum is " + sum);
      System.out.println("The difference is " + diff);
      System.out.println("The product is " + prod);
      System.out.println("The quotient is " +quo);
   }
}
```

Output : The sum is: 7
The difference is: -3
The product is: 10
The quotient is: 0

```
class SimpleInterest
{
    public static void main(String arg[])
    {
       int p=100, t=2, r=5;
       int sI=(p*t*r)/100;
       System.out.println("the simple interest is:" + sI);
    }
}
```

```
C:\Users\student\Documents\Srinidhi>java SimpleInterest
the simple interest is:10
```

2. ~~Klaisi~~ a ~~SimpleInterest~~ java program to write simple Interest.

```
class SimpleInterest
{
    public static void main (String arg[])
    {
        int p=100, t=2, r=5;
        int SI = (p*t*r)/100;
        System.out.println("The simple interest is:"+SI);
    }
}
```

Output: The simple interest is: 10

```
class Fibonacci
{
    public static void main(String arg[])
    {
       int n=5;
       int first=0,second=1,third;
       System.out.println("The Fibonacci series:");
       System.out.println(first);
       System.out.println(second);
       for(int i=0;i<n;i++){
       third=first+second;
       first=second;
       second=third;
       System.out.println(third);}
    }
}
```

```
C:\Users\student\Documents\Srinidhi>java Fibonacci
The Fibonacci series:
0
1
1
2
3
5
8
```

3. Write a java program to generate Fibonacci series.

```
class Fibonacci
{
    public static void main (String arg[])
    {
      int n = 5;
      int first=0, second=1, third;
      System.out.println("The Fibonacci series:");
      System.out.println(first);
      System.out.println(second);
      for( int i=0; i<n; i++){
       third = first + second;
       first = second;
       second = third;}
      System.out.println(third);
    }
}
```

Output: The fibonacci series:

0
1
1
2
3
5
8.

```java
class Tables
{
    public static void main(String arg[])
    {
         int p,q;
         for(int i=1; i<=10; i++){
         p=3*i;
         System.out.println("3X" + i +"=" + 3*i);}
         for(int i=1; i<=10; i++){
         q=5*i;
         System.out.println("5X" + i +"=" + 5*i);}
     }
}
```

```
C:\Users\student\Documents\Srinidhi>java Tables
3X1=3
3X2=6
3X3=9
3X4=12
3X5=15
3X6=18
3X7=21
3X8=24
3X9=27
3X10=30
5X1=5
5X2=10
5X3=15
5X4=20
5X5=25
5X6=30
5X7=35
5X8=40
5X9=45
5X10=50
```

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

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

Output :

```
3x1=3
3x2=6
3x3=9
3x4=12
3x5=15
3x6=18
3x7=21
3x8=24
3x9=27
3x10=30
5x1=5
5x2=10
5x3=15
5x4=20
5x5=25
5x6=30
5x7=35
5x8=40
5x9=45
5x10=50
```

print factorial of a

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

```
C:\Users\student\Documents\Srinidhi>java Factorial
The factorial is:
120
```

5 × 10 = 50

5. Write a java program to print factorial of a given number.

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

Output : The factorial is :
120