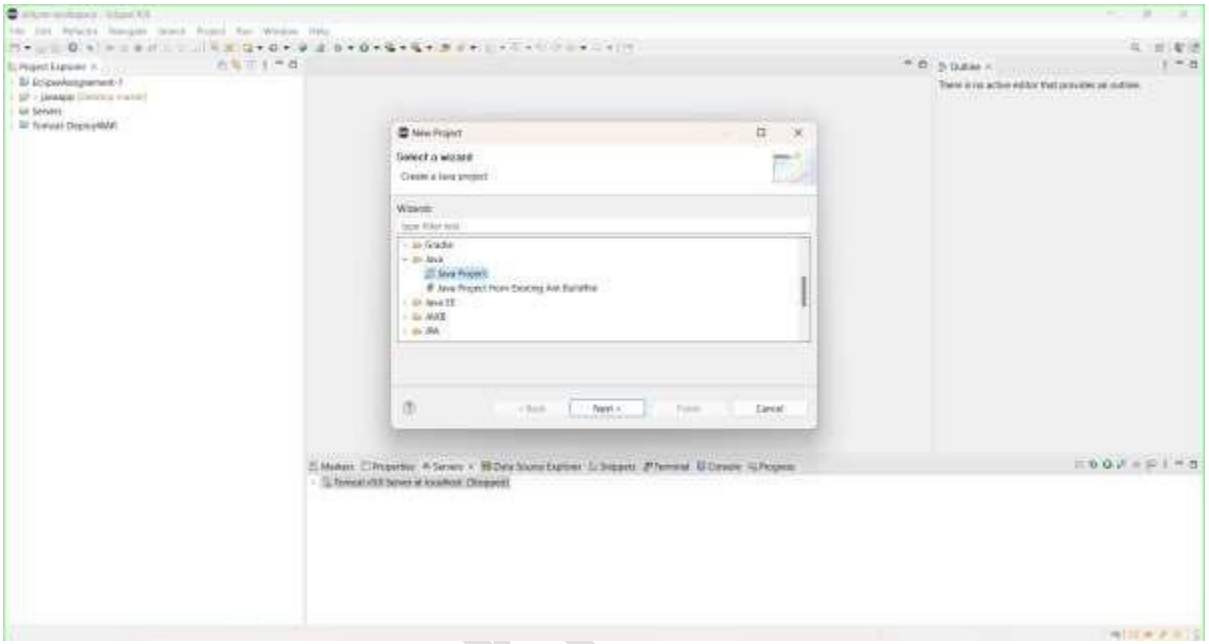
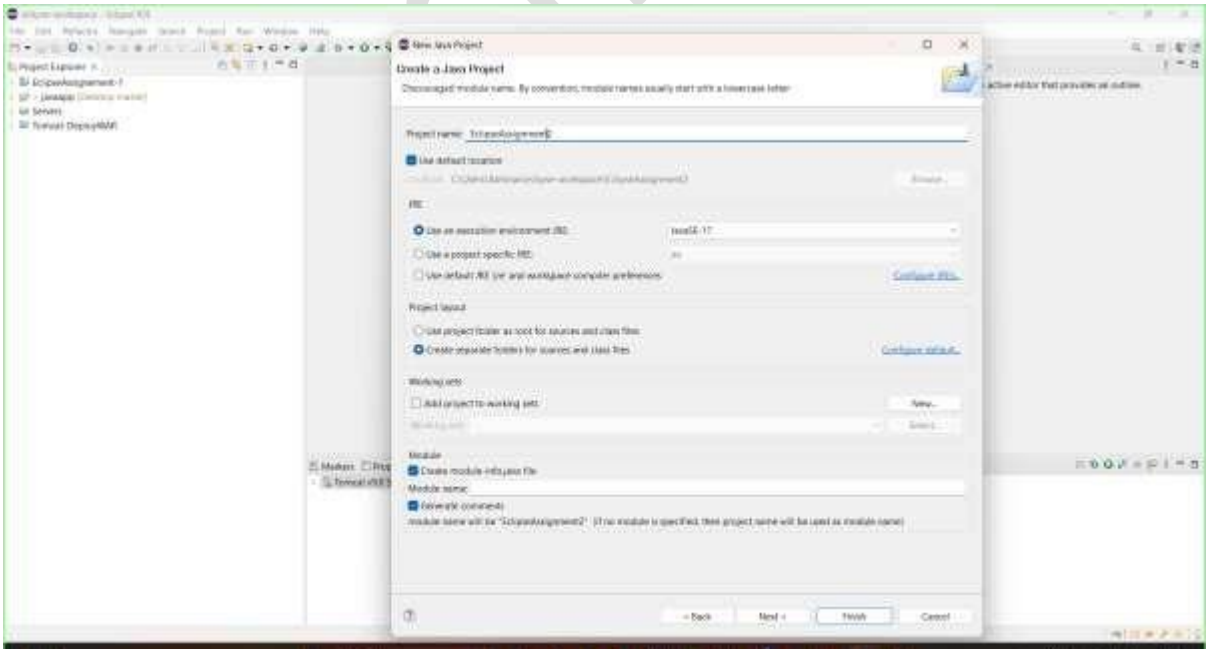
ASSIGNMENT-2

-submitted by **Dinesh kumar Kunchala** Date:09/04/2023

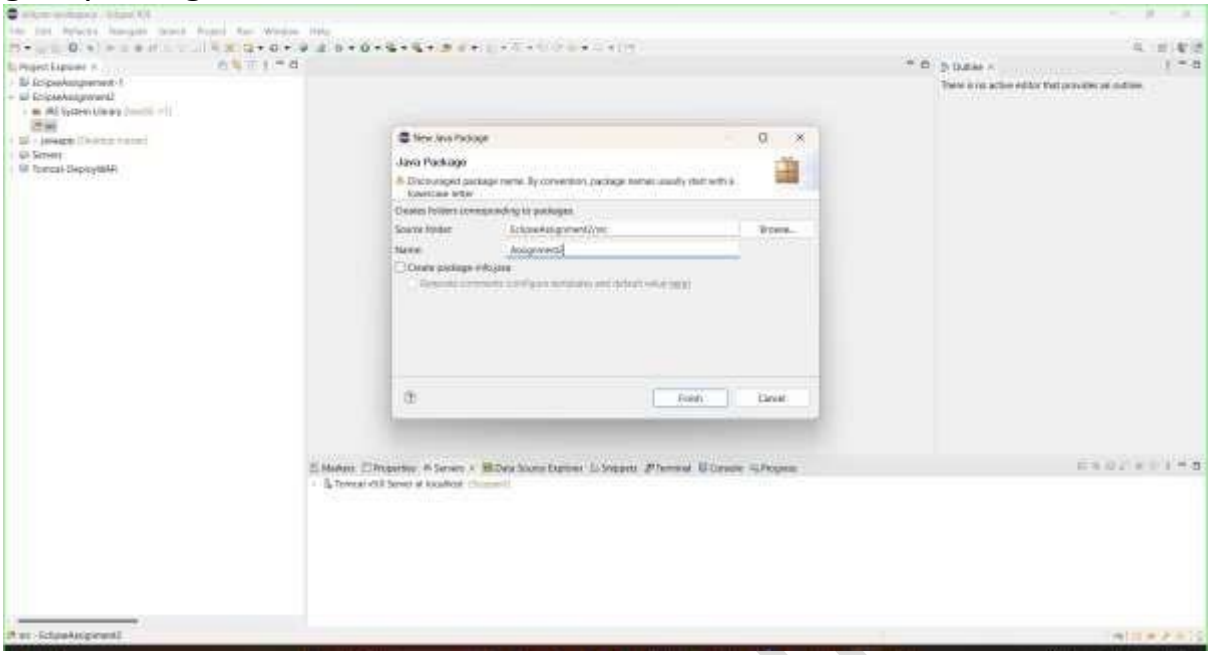
Step1: Create Java Project.

Go to **file->new->project..->java->java project** and give project name and click on finish.

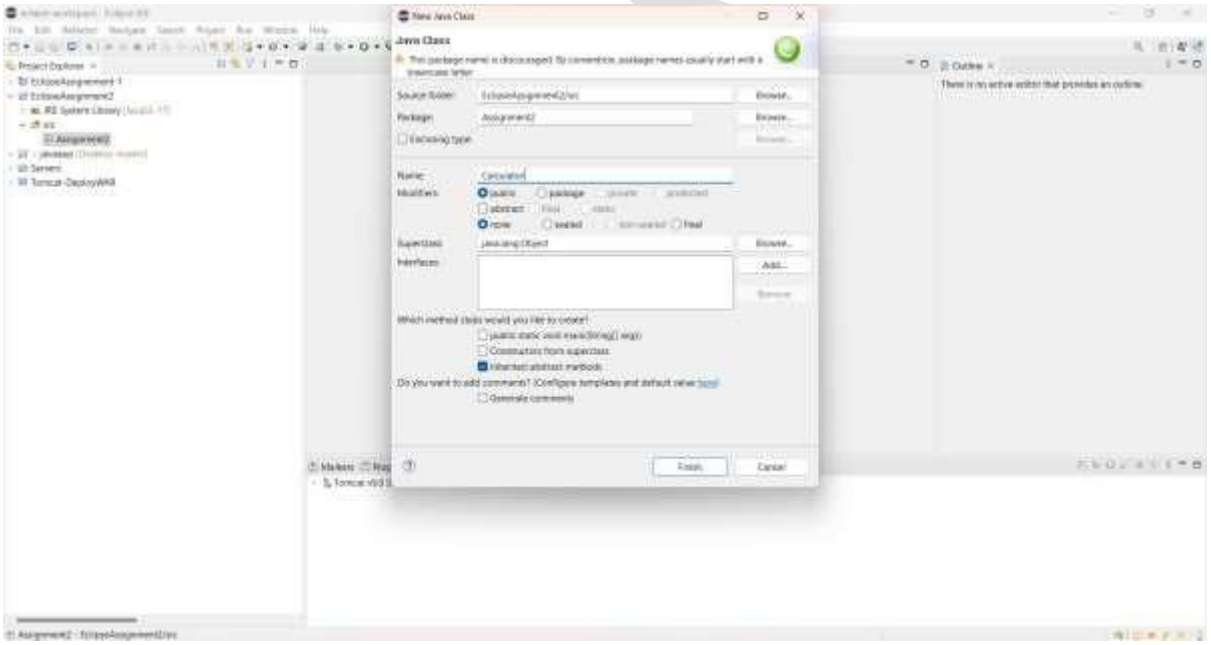




Step2: Create a class Calculator.java.
Create a new package by right clicking on **src->new->package** and give package name.



Right click on **package ->new->class** give new class name and click on Finish.



Step3: Write 4 public methods for (Sum, Subtract, Multiply, Divide).

*Calculator.java

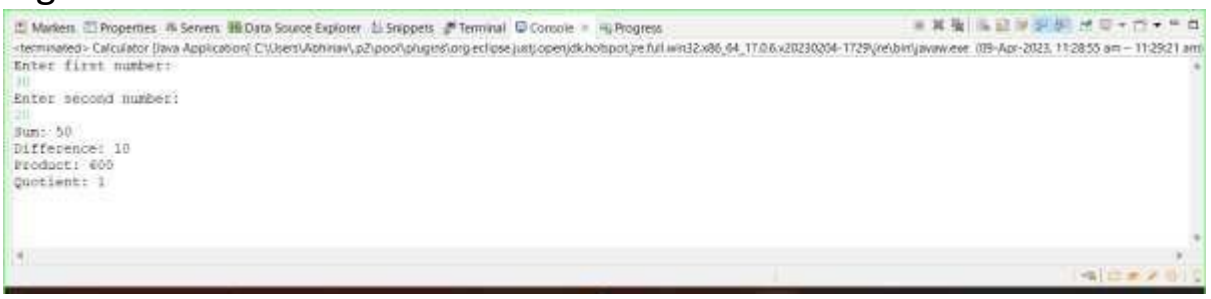
```
1  package Assignment2;
2
3  import java.util.Scanner;
4
5  public class Calculator {
6
7      public static int Sum(int a, int b) {
8          return a + b;
9      }
10
11     public static int Subtract(int a, int b) {
12         return a - b;
13     }
14
15     public static int Multiply(int a, int b) {
16         return a * b;
17     }
18
19     public static int Divide(int a, int b) {
20         return a / b;
21     }
22
23     public static void main(String[] args) {
40 }
41
42
```

Step4: Each method takes 2 integer values as input .
In the image above input a,b are integer parameters for methods.
Step5: Read input from the console.
Scanner Is used to read input from console.
Step6: Write the main method to read 2 input values from terminal.

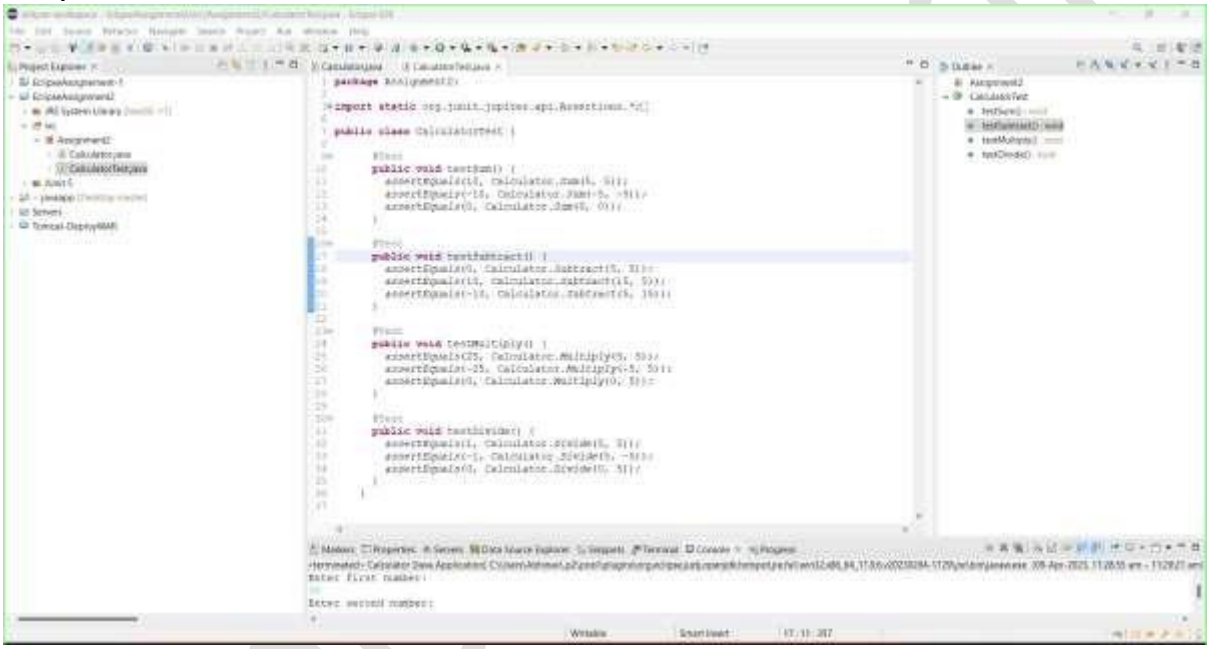
Calculator.java

```
1  package Assignment2;
2
3  import java.util.Scanner;
4
5  public class Calculator {
6
7      public static int Sum(int a, int b) {
10
11     public static int Subtract(int a, int b) {
14
15     public static int Multiply(int a, int b) {
18
19     public static int Divide(int a, int b) {
22
23     public static void main(String[] args) {
24         Scanner scanner = new Scanner(System.in);
25         System.out.println("Enter first number:");
26         int num1 = scanner.nextInt();
27         System.out.println("Enter second number:");
28         int num2 = scanner.nextInt();
29         scanner.close();
30         int sum = Sum(num1, num2);
31         int difference = Subtract(num1, num2);
32         int product = Multiply(num1, num2);
33         int quotient = Divide(num1, num2);
34
35         System.out.println("Sum: " + sum);
36         System.out.println("Difference: " + difference);
37         System.out.println("Product: " + product);
38         System.out.println("Quotient: " + quotient);
39     }
40 }
```

Step7: Call all the methods and print the output of the methods.
Right click on click on run.



Step8: Import the Junit jar.
Right click on package new->junit->junit Testcase and give project name as Calculator Test and include junit in project.
Step9: Write the Junit testcases for each of the 4 methods.



Step10: Run the test cases to validate the method output.
Click on run->run as-> Junit Test.