```
package com.section6.calci;
import java.util.*;
class Calculator
{
        public double result;
       public Calculator(int choice, double num1, double num2)
       {
    double result;
      switch (choice)
      {
        case 1:
           this.result = num1 + num2;
           break;
        case 2:
           this.result = num1 - num2;
           break;
        case 3:
           this.result = num1 * num2;
           break;
        case 4:
          if (num2 != 0)
             this.result = num1 / num2;
```

```
}
else
{
    System.out.println("Error: Division by zero");
    break;
}
break;

default:
    System.out.println("Invalid choice. Please select a valid operation.");
}

}
```

```
package com.section6.calci;
import java.util.*;
public class CalculatorApp {
        public static void main(String[] args)
        {
         Scanner scanner = new Scanner(System.in);
                System.out.println("Welcome to the Basic Calculator!");
    while (true) {
      System.out.println("1. Addition (+)");
      System.out.println("2. Subtraction (-)");
      System.out.println("3. Multiplication (*)");
      System.out.println("4. Division (/)");
      System.out.println("5. Exit");
      System.out.println("Choose any NUMBER for operation:");
      int choice = scanner.nextInt();
      if(choice<5)
      {
      System.out.print("Enter the first number: ");
      double num1 = scanner.nextDouble();
      System.out.print("Enter the second number: ");
      double num2 = scanner.nextDouble();
      Calculator calci=new Calculator(choice,num1,num2);
```

```
double finalresult=calci.result;
    System.out.println("THE RESULT IS :"+finalresult);
}
    else if(choice == 5) {
        System.out.println("Thank You Visit Again!");
        continue;
    }
    else
    {
        System.out.println("Enter a valid Choice: ");
    }
}
```

SOURCE CODE

class Calculator
 (by using Constructor)

class CalculatorApp
 (Main Method)

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