

```
import java.util.Scanner;

public class modularcalculator {

    // Addition (Overloaded)
    static int add(int a, int b) {
        return a + b;
    }

    static int subtract(int a, int b) {
        return a - b;
    }

    static int multiply(int a, int b) {
        return a * b;
    }

    static double divide(int a, int b) {
        if (b == 0) {
            throw new ArithmeticException("Cannot divide by zero");
        }
        return (double) a / b;
    }

    static void passByValueDemo(int x) {
        x = x + 10;
        System.out.println("Inside method x = " + x);
    }
}
```

```
public static void main(String[] args) {  
    Scanner sc = new Scanner(System.in);  
  
    System.out.print("Enter first number: ");  
    int a = sc.nextInt();  
  
    System.out.print("Enter second number: ");  
    int b = sc.nextInt();  
  
    System.out.println("Addition = " + add(a, b));  
    System.out.println("Subtraction = " + subtract(a, b));  
    System.out.println("Multiplication = " + multiply(a, b));  
  
    try {  
        System.out.println("Division = " + divide(a, b));  
    } catch (Exception e) {  
        System.out.println(e.getMessage());  
    }  
  
    int x = 5;  
    System.out.println("Before method x = " + x);  
    passByValueDemo(x);  
    System.out.println("After method x = " + x);  
  
    sc.close();  
}
```

EXPLORER ... PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ... Run: modularcalculator +

▼ SANIKA

J calculator.class
J calculator.java
E Hello
J HelloWorld.class
J HelloWorld.java
J modularcalculator.class
J modularcalculator.java
P sanika.py
E sanikad.py
P sorting.py
J StudentResultSystem.c...
J StudentResultSystem.j...

Microsoft Windows [Version 10.0.26100.4946]
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```
C:\Users\madha\OneDrive\Desktop\sanika> cmd /C "C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\bin\java.exe -XX:+ShowCodeDetailsInExceptionMessages -cp C:\Users\madha\AppData\Roaming\Code\User\work\spaceStorage\e8d50f06b353f9154a01ab3563ee4ec2\redhat.java\jdt_ws\sanika_ce92ae38\b in modularcalculator "
[0.030s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.030s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.031s][warning][cds] C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules timestamp has changed.
Enter first number: 87
Enter second number: 54
Addition = 141
Subtraction = 33
Multiplication = 4698
Division = 1.6111111111111112
Before method x = 5
Inside method x = 15
After method x = 5

C:\Users\madha\OneDrive\Desktop\sanika>javac modularcalculator.java
[0.018s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.018s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS ... Run: modularcalculator + v ... | Run: modularcalculator

```
C:\Users\madha\OneDrive\Desktop\sanika>javac modularcalculator.java
[0.018s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.018s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.018s][warning][cds] C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules timestamp has changed.

C:\Users\madha\OneDrive\Desktop\sanika>java modularcalculator
[0.018s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.019s][warning][cds] A jar file is not the one used while building the shared archive file: C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules
[0.019s][warning][cds] C:\Users\madha\AppData\Roaming\Code\User\globalStorage\pleiades.java-extension-pack-jdk\java\21\lib\modules timestamp has changed.
Enter first number: 67
Enter second number: 54
Addition = 121
Subtraction = 13
Multiplication = 3618
Division = 1.2407407407407407
Before method x = 5
Inside method x = 15
After method x = 5

C:\Users\madha\OneDrive\Desktop\sanika>[]
```