

# JAVA CALCULATOR ASSIGNMENT

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B.Tech (CSE AII/M)  
Section B

```

import java.util.Scanner;
class Calculator
{
    int add (int a, int b) { return a+b; }
    double add (double a, double b) { return a+b; }
    int add (int a, int b, int c) { return a+b+c; }
    int subtract (int a, int b) { return a-b; }
    double multiply (double a, double b) { return a*b; }
    double divide (int a, int b) {
        if (b==0) throw new ArithmeticException ("cannot divide by zero!");
        return (double) a/b;
    }
}

```

```

public class CalculatorApp {
    public static void main (String [] args) {
        Scanner sc = new Scanner (System.in);
        Calculator c = new Calculator ();
        int choice;
        do {
            System.out.println ("\\n---Calculator Menu---");
            System.out.println ("1. Add");
            System.out.println ("2. Subtract");
            System.out.println ("3. Multiply");
            System.out.println ("4. Divide");
            System.out.println ("5. Exit");
            System.out.print ("enter choice: ");
            choice = sc.nextInt ();
        }
    }
}

```

try {

switch (choice) {

case 1 → {

System.out.println ("1. Two int") ;

2. Two doubles | 3. Three ints");

int ch = sc.nextInt();

if (ch == 1) {

System.out.print ("enter two  
integers : ");System.out.println ("Result : "  
+ c.add (sc.nextInt(),  
sc.nextInt ()));

} else if (ch == 2) {

System.out.print ("enter two  
doubles : ");System.out.println ("Result : "  
+ c.add (sc.nextDouble(),  
sc.nextDouble ())));

} else if (ch == 3) {

System.out.print ("enter three  
integers : ");System.out.println ("Result : "  
+ c.add (sc.nextInt(), sc.  
nextInt (), sc.nextInt ())));

{}

case 2 → {

System.out.print ("enter two  
integers : ");System.out.println ("Result : "  
+ c.~~add~~ subtract (sc.nextInt(),  
sc.nextInt ())));

case 3 → {

System.out.print ("enter two integers");  
System.out.println ("Result : " +  
c.multiply (sc.nextDouble(),  
sc.nextDouble ()) );

}

case 4 → {

System.out.print ("Enter two integers");  
System.out.println ("Result : " +  
c.divide (sc.nextInt(),  
sc.nextInt ()) );

}

case 5 → System.out.println ("Goodbye");  
default → System.out.println ("Invalid  
choice!");

}

} catch (Exception e) {

System.out.println ("Error: " + e.getMessage ());  
sc.nextLine();

} }

} while (choice != 5);

sc.close();

}

}