

JAVA CALCULATOR ASSIGNMENT

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BTech CSE AIML
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 5. Exit");
            System.out.println ("enter choice: ");
            choice = sc.nextInt ();
```


try {

switch (choice) {

case 1 → {

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

2. Two doubles 1 3. Three int ") ;

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 double 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("byebye");
default → System.out.println("Invalid
choice!");

}

} catch (Exception e) {

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

}

} while (choice != 5);

sc.close();

}

}