

Program No. 1

Write a program to display a menu with an option add, subtract, multiply and division by implementing classes. Do the appropriate action on selection. Use separate method for calculation.

```
import java.util.Scanner;
class Calculator {
    int x, y;
    void
    getData(int a, int b) {
        x = a;
        y = b;
    }
    int sum() {
        return (x + y);
    }
    int difference() {
        return (x - y);
    }
    int product() {
        return (x * y);
    }
    int quotient() {
        return (x / y);
    }
}
public class CalcTwo0 {
    public static void main(String args[]) {
        int n1, n2, ch;
        Scanner ob = new Scanner(System.in);
        Calculator c = new Calculator();
        try {
            System.out.print("Enter the first number: ");
            n1 = ob.nextInt();
            System.out.print("Enter the second number: ");
            n2 = ob.nextInt();
            c.getData(n1, n2);
            do {
                System.out.println("Menu For Operation\n1. Add\n2.
Subtract\n3. Multiply\n4.Divide\n5. Exit\nEnter youc choice: ");
                ch = ob.nextInt();
                switch (ch) {
                    case 1:
                        System.out.println("The sum is: " + c.sum());
                        break;
                    case 2:
                        System.out.println("The difference is: " +
c.difference());
```

```

        break;
    case 3:
        System.out.println("The product is: " + c.product());
        break;
    case 4:
        System.out.println("The quotient is: " + c.quotient());
        break;
    case 5:
        System.exit(0);
    default:
        System.out.println("Invalid Choice.");
    }
}
while (ch <= 5);
} catch (Exception e) {}
}
}

```

Output:

```
D:\4th sem\Java\lab>javac CalcTwo0.java
```

```
D:\4th sem\Java\lab>java CalcTwo0
```

```
Enter the first number: 10
```

```
Enter the second number: 5
```

```
Menu For Operation
```

1. Add
2. Subtract
3. Multiply
- 4.Divide
5. Exit

```
Enter youc choice:
```

```
1
```

```
The sum is: 15
```

```
Menu For Operation
```

1. Add
2. Subtract
3. Multiply
- 4.Divide
5. Exit

```
Enter youc choice:
```

```
2
```

```
The difference is: 5
```

```
Menu For Operation
```

1. Add
2. Subtract
3. Multiply
- 4.Divide
5. Exit

```
Enter youc choice:
```

```
3
```

```
The product is: 50
```

```
Menu For Operation
```

1. Add
2. Subtract
3. Multiply
- 4.Divide
5. Exit

```
Enter youc choice:
```

```
4
```

```
The quotient is: 2
```

```
Menu For Operation
```

1. Add
2. Subtract
3. Multiply
- 4.Divide
5. Exit

```
Enter youc choice:
```

```
5
```