

```
1 package javapract;
2 import java.util.Scanner;
3
4 public class ArithCalc {
5
6
7     public static void main(String[] args) {
8         Scanner scanner = new Scanner(System.in);
9
10        // User Input Loop
11        while (true) {
12            System.out.println("\nArithmetic Calculator Menu:");
13            System.out.println("1. Addition");
14            System.out.println("2. Subtraction");
15            System.out.println("3. Multiplication");
16            System.out.println("4. Division");
17            System.out.println("5. Exit");
18            System.out.print("Enter your choice: ");
19
20            int choice = scanner.nextInt();
21            double result = 0.0;
22
23            switch (choice) {
24                case 1:
25                    result = performAddition(scanner);
26                    break;
27                case 2:
28                    result = performSubtraction(scanner);
29                    break;
30                case 3:
31                    result = performMultiplication(scanner);
32                    break;
33                case 4:
34                    result = performDivision(scanner);
35                    break;
36                case 5:
37                    System.out.println("Exiting program.");
38                    scanner.close();
39                    return;
40                default:
41                    System.out.println("Invalid Choice!");
42                    continue;
43            }
44        }
45    }
46}
```

Console ×

<terminated> ArithCalc [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (26-Mar-2024, 5:20:30 pm - 5:20:46 pm)

Arithmetic Calculator Menu:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter your choice: 2

Enter first number: 3

Enter second number: 1

Result: 2.0

Do you want to perform another operation? (yes/no): yes

Arithmetic Calculator Menu:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter your choice: 1

Enter first number: 2

Enter second number: 3

Result: 5.0

Do you want to perform another operation? (yes/no): no

Exiting program.

```
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2 import java.util.Scanner;
3
4 public class ArithCalc {
5
6     public static void main(String[] args) {
7         Scanner scanner = new Scanner(System.in);
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16            System.out.println("5. Exit");
17            System.out.print("Enter your choice: ");
18
19            int choice = scanner.nextInt();
20            double result = 0.0;
21
22            switch (choice) {
23                case 1:
24                    result = performAddition(scanner);
25                    break;
26                case 2:
27                    result = performSubtraction(scanner);
28                    break;
29                case 3:
30                    result = performMultiplication(scanner);
31                    break;
32                case 4:
33                    result = performDivision(scanner);
34                    break;
35                case 5:
36                    System.out.println("Exiting program.");
37                    scanner.close();
38                    return;
39                default:
40                    System.out.println("Invalid Choice!");
41                    continue;
42            }
43        }
44    }
```

Console X

<terminated> ArithCalc [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (26-Mar-2024, 5:07:25 pm - 5:07:54 pm)

Arithmetic Calculator Menu:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter your choice: 3

Enter first number: 4

Enter second number: 5

Result: 20.0

Do you want to perform another operation? (yes/no): yes

Arithmetic Calculator Menu:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter your choice: 4

Enter numerator: 4

Enter denominator: 2

Result: 2.0

Do you want to perform another operation? (yes/no): no

Exiting program.