

20. Java program to implement a calculator to do basic operations

Output:

Enter first number: 4  
Enter second number: 6  
Enter 1 for addition  
Enter 2 for subtraction  
Enter 3 for multiplication  
Enter 4 for division  
Enter 5 to Exit

3

Result:24

Enter 1 for addition  
Enter 2 for subtraction  
Enter 3 for multiplication  
Enter 4 for division  
Enter 5 to Exit

import java.util.Scanner;

```
import java.util.Scanner;
public class Exercise20
{
    public static void main(String[] args)
    {
        System.out.println("Enter first number");
        Scanner scanner = new Scanner(System.in);
        double a = scanner.nextDouble();
        System.out.println("Enter second number");
        double b = scanner.nextDouble();

        System.out.println("Enter 1 for addition");
        System.out.println("Enter 2 for substration");
        System.out.println("Enter 3 for multiplication");
        System.out.println("Enter 4 for division");
        System.out.println("Enter 5 to exit");

        int choice = scanner.nextInt();

        switch (choice) {
            case 1:
                System.out.println("Result:" + (a+b));
                break;
            case 2:
                System.out.println("Result:" + (a-b));
                break;
            case 3:
                System.out.println("Result:" + (a*b));
```

```
        break;
    case 4:
        System.out.println("Result:" + (a/b));
        break;
    case 5:
        System.out.println("Exiting...");
        System.exit(0);
        break;

    default:
        System.out.println("Invalid choice");
        break;
}

}

}
```