

Problem -1

Create a Bank class and declare an instance variable named amount of type double. Create parameterized constructor to initialize variable “amount” with value 10000. Create two methods withdraw(double withdrawalAmount) and deposit(double depositAmount). Calculate withdrawal based on some condition (using ternary operator) like If amount is sufficient then “withdraw successful” message will be printed on the console and amount should be updated after withdraw. Later on, deposit 5000 in the account balance. At the end display total balance on the console.

Code:

```
public class Bank {  
    // Creating Instance variable 'amount' to store the balance  
    private double amount;  
  
    //Creating Parameterized constructor to initialize the 'amount' with 10000  
    public Bank(double amount) {  
        this.amount = amount;  
    } // Method to withdraw money  
  
    public void withdraw(double withdrawalAmount) {  
        // Using ternary operator to check if the withdrawal can be successful  
        String message = (amount >= withdrawalAmount) ? "Withdrawal successful!" : "Insufficient  
Balance!";  
  
        System.out.println(message);  
  
        // Update the amount if the withdrawal is successful  
        if (amount >= withdrawalAmount) {  
            amount -= withdrawalAmount;  
        }  
    }  
  
    // Method to deposit money
```

```
public void deposit(double depositAmount) {  
    amount += depositAmount;  
    System.out.println("Deposit successful!");  
}  
  
// Creating Method to display the current balance  
public void displayBalance() {  
    System.out.println("Total balance: " + amount);  
}  
  
// Main method to execute the program  
public static void main(String[] args) {  
    // Creating an object of Bank class with initial amount 10000  
    Bank account = new Bank(10000);  
  
    // Trying to withdraw 2000  
    account.withdraw(2000);  
  
    // Depositing 5000  
    account.deposit(5000);  
  
    // Display the final balance  
    account.displayBalance();  
}  
}
```

Output:

Withdrawal successful!

Deposit successful!

Total balance: 13000.0

Problem -2

Write a program to input two numbers and find the maximum between two numbers using the conditional/ternary operator.

Code :

```
import java.util.Scanner;
```

```
public class Max {
```

```
    public static void main(String[] args) {
```

```
        // Create a Scanner object to take input from the user
```

```
        Scanner scanner = new Scanner(System.in);
```

```
        // Input two numbers from the user
```

```
        System.out.print("Enter the first number: ");
```

```
        int num1 = scanner.nextInt();
```

```
        System.out.print("Enter the second number: ");
```

```
        int num2 = scanner.nextInt();
```

```
        // Find the maximum number using the ternary operator
```

```
        int max = (num1 > num2) ? num1 : num2;
```

```
        // Display the maximum number
```

```
        System.out.println("The maximum number between " + num1 + " and " + num2 + " is: " + max);
```

```
}  
}
```

Output:

Enter the first number: 45

Enter the second number: 23

The maximum number between 45 and 23 is: 45