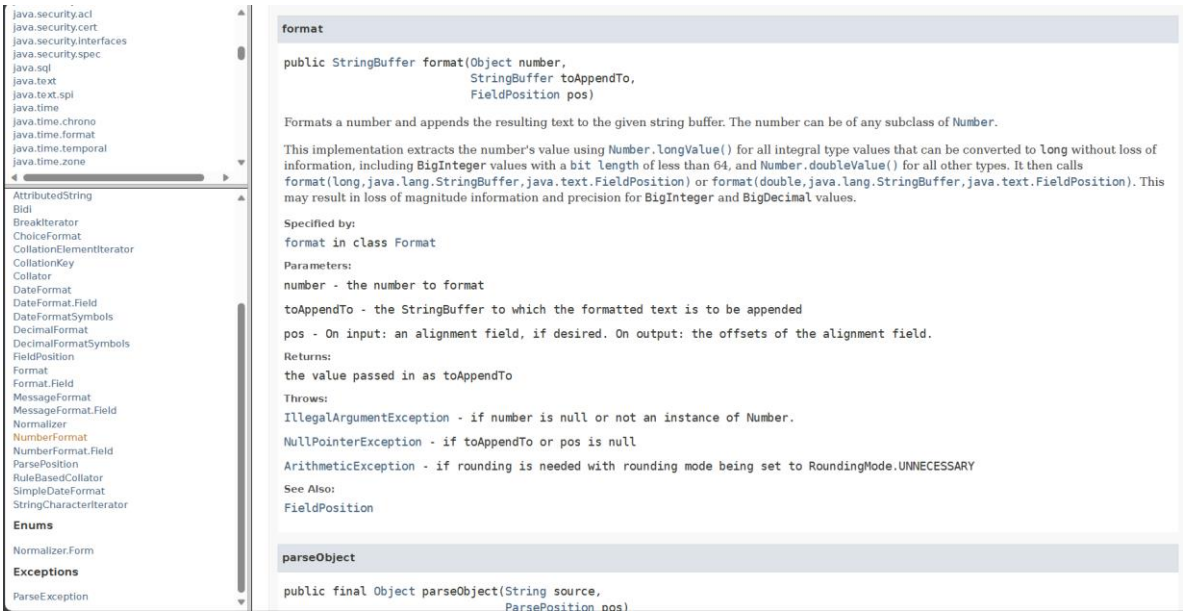
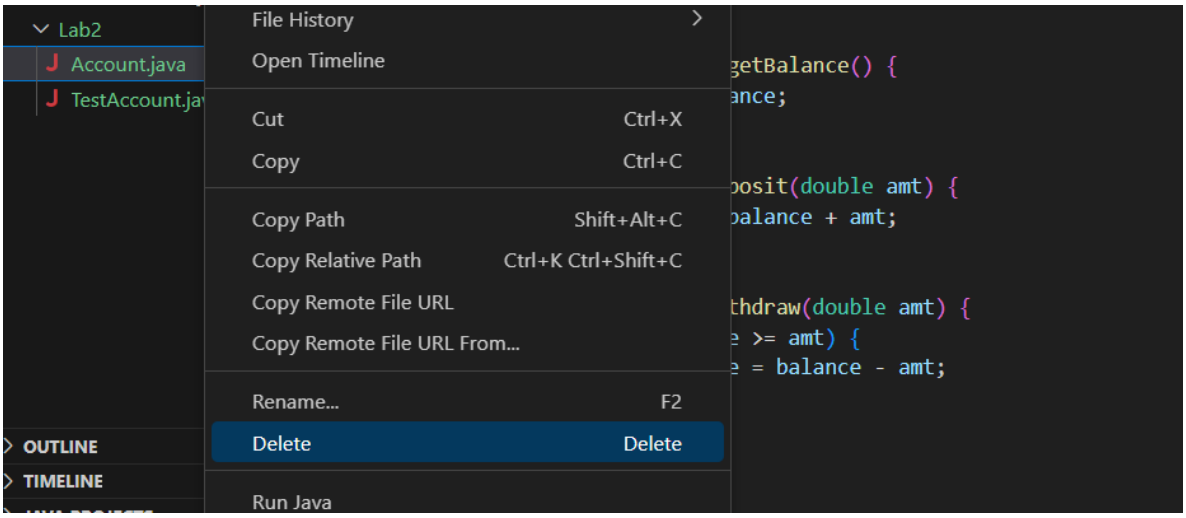
Contenido

Exercise 1: Using the Java API Documentation

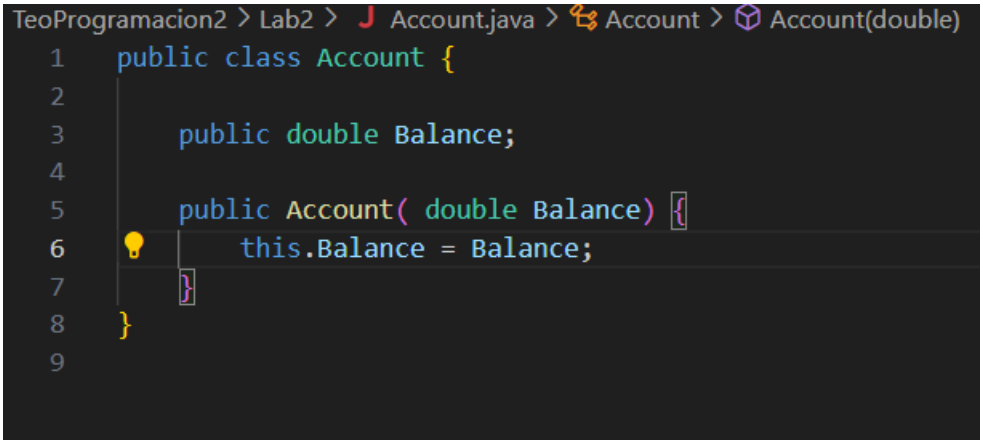


Exercise 2: Exploring Encapsulation

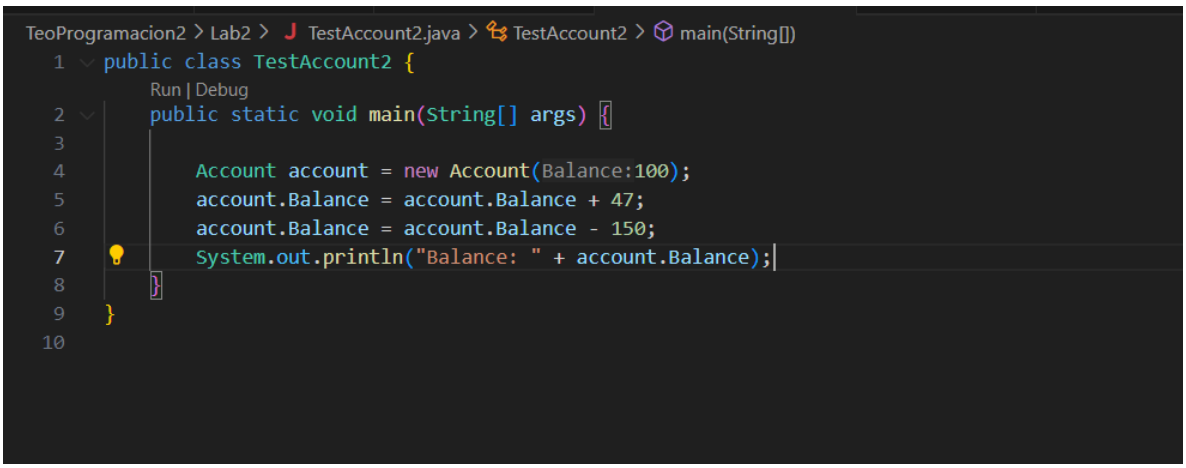
Task 1 – Deleting the Account Class



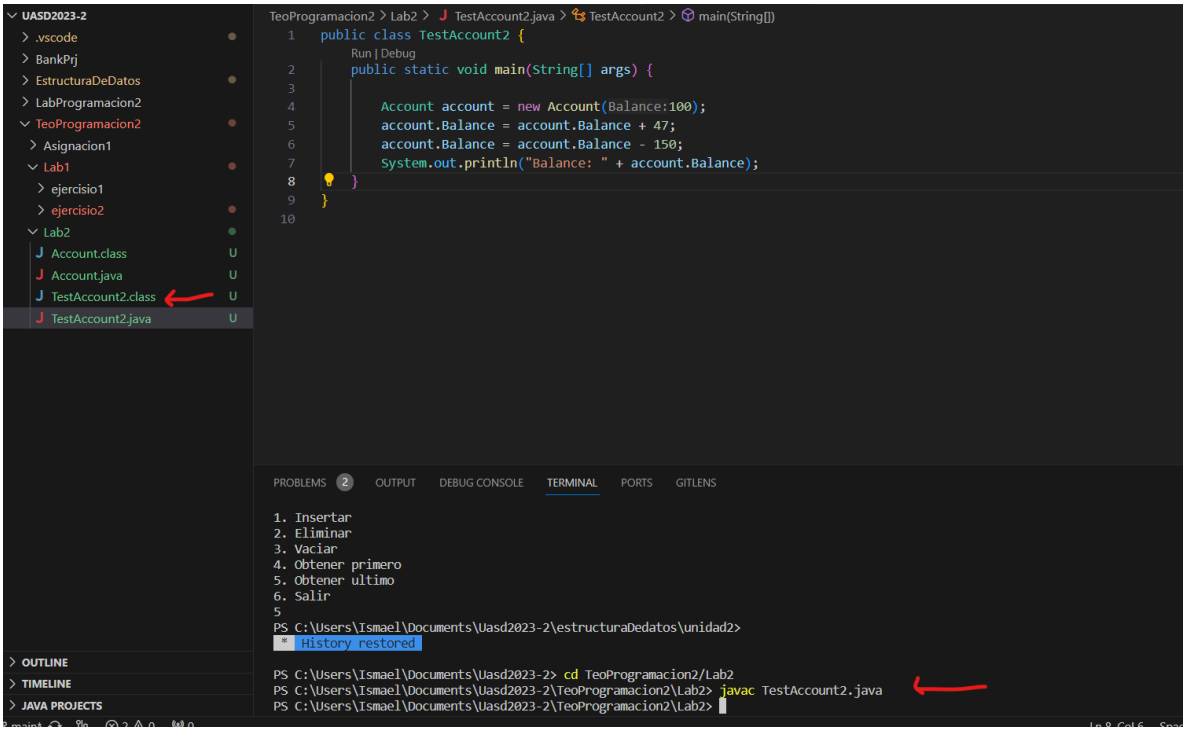
Task 2 – Creating the Account Class



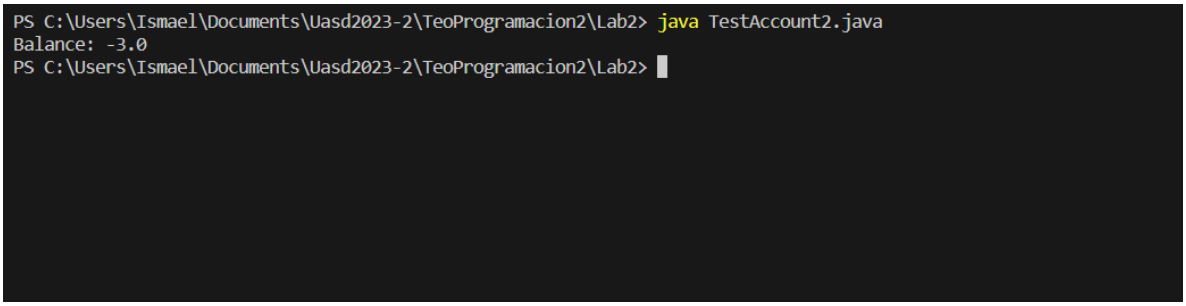
Task 3 – Creating the TestAccount2 Class



Task 4 – Compiling the TestAccount2 Class



Task 5 – Running the TestAccount2 Program



Exercise 3: Exploring Encapsulation

Task 1 – Modifying the Account Class

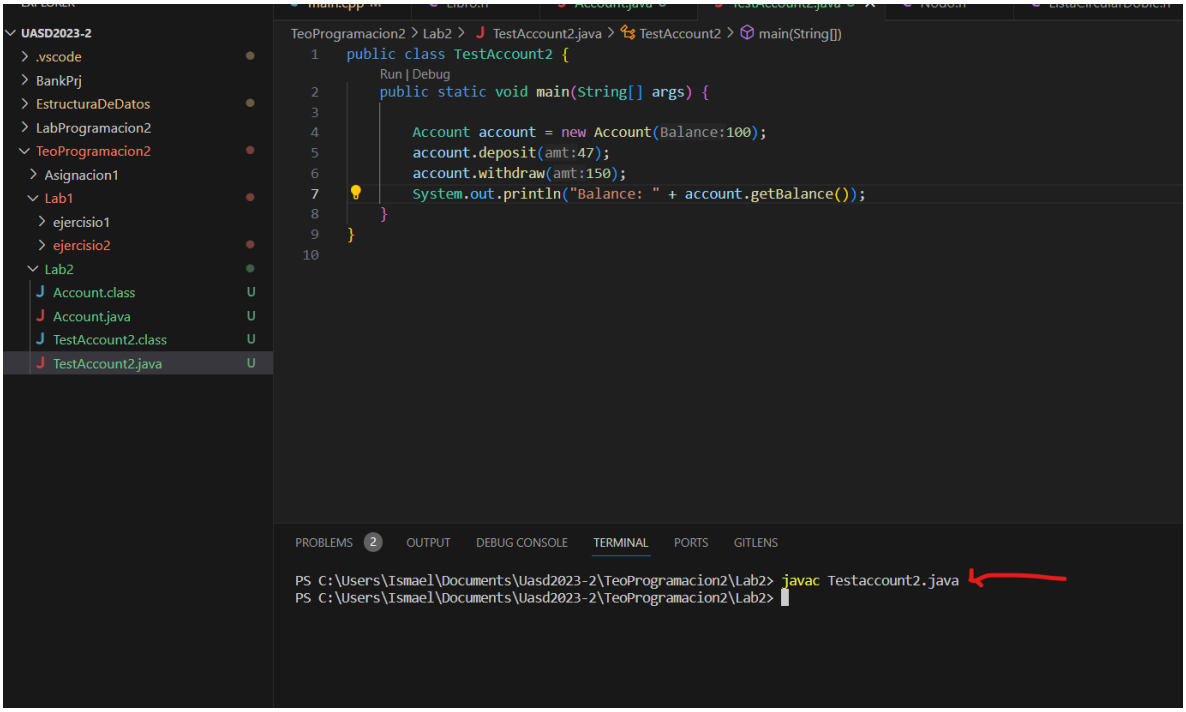
```
public class Account {

    private double Balance;

    public Account(double Balance) {
        this.Balance = Balance;
    }

    public void deposit(double amt) {
```

```
        Balance = Balance + amt;
    }

    public void withdraw(double amt) {
        if (amt <= Balance) {
            Balance = Balance - amt;
        }
    }

    public double getBalance() {
        return Balance;
    }
}
```

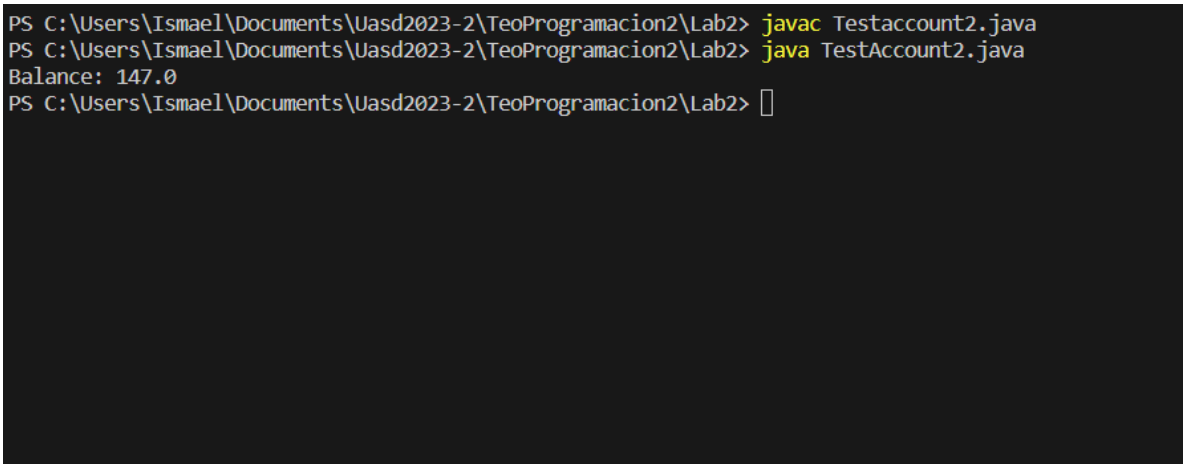
Task 2 – Modifying the TestAccount Class

```
public class TestAccount2 {
    public static void main(String[] args) {

        Account account = new Account(100);
        account.deposit(47);
        account.withdraw(150);
        System.out.println("Balance: " + account.getBalance());
    }
}
```

Task 3 – Compiling the TestAccount Class



Task 4 – Running the TestAccount Program



Exercise 4: Creating Java Packages

Task 1 – Creating the Java Packages

```
El número de serie del volumen es D887-56B3
C:.
└───com
    └───mybank
        ├───domain
        └───test
```

Task 2 – Moving and Modifying the Account Class

```java
package com.mybank.domain;

public class Account {

    private double Balance;

    public Account(double Balance) {
        this.Balance = Balance;
    }

    public void deposit(double amt) {
        Balance = Balance + amt;
    }

    public void withdraw(double amt) {
        if (amt <= Balance) {
            Balance = Balance - amt;
        }
    }

    public double getBalance() {
        return Balance;
    }
}
```

Task 3 – Moving the TestAccount Class

```java
package com.mybank.test;

import com.mybank.domain.Account;

public class TestAccount2 {
    public static void main(String[] args) {

        Account account = new Account(100);
        account.deposit(47);
        account.withdraw(150);
        System.out.println("Balance: " + account.getBalance());
    }
}
```

Task 4 – Compiling the TestAccount Class

```
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2> javac -cp . com/mybank/test/TestAccount2.java
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2>
```

Task 5 – Running the TestAccount Program

```
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2> javac -cp . com/mybank/test/TestAccount2.java
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2> java -cp . com/mybank/test/TestAccount2.java
Balance: 147.0
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2>
```