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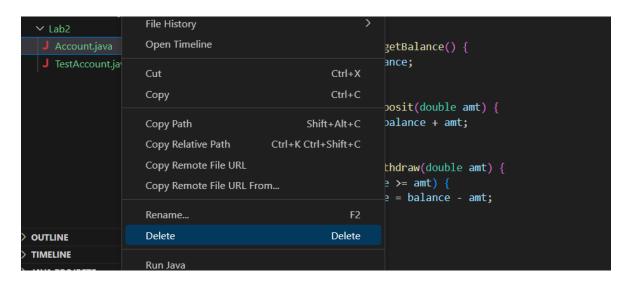
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Exercise 1: Using the Java API Documentation



Exercise 2: Exploring Encapsulation

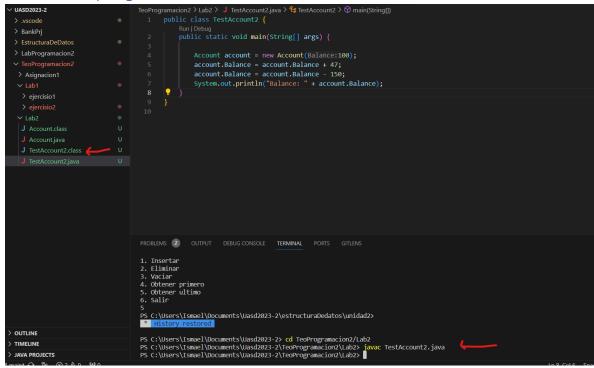
Task 1 – Deleting the Account Class



Task 2 – Creating the Account Class

Task 3 – Creating the TestAccount2 Class

Task 4 – Compiling the TestAccount2 Class



Task 5 – Running the TestAccount2 Program

```
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\Lab2> java TestAccount2.java
Balance: -3.0
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\Lab2>
```

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;
}
</pre>
```

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

```
V MASD2023-2

> vscode

> BankPrj

> EstructuraDeDatos

> LabProgramacion2

> LabProgramacion2

> Asignacion1

> Asignacion1

> ejercisio2

> Lab2

J Accountclass

J Accountclass

U J Accountclass

U J TestAccount2.java

PROBLEMS

2 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

PS C; Ulsers\Ismael\Documents\Uasd2023-2\TesProgramacion2\Lab2> javac Testaccount2.java

PS C; Ulsers\Ismael\Documents\Uasd2023-2\TesProgramacion2\Lab2> javac Testaccount2.java

| Testaccount2.java | Display | Debug Console Terminal Ports Gitlens

| PS C; Ulsers\Ismael\Documents\Uasd2023-2\TesProgramacion2\Lab2> javac Testaccount2.java

| PS C; Ulsers\Ismael\Documents\Uasd2023-2\TesProgramacion2\Lab2> javac Testaccount2.java

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```

Task 4 – Running the TestAccount Program

```
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\Lab2> javac Testaccount2.java
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\Lab2> java TestAccount2.java
Balance: 147.0
PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\Lab2> []
```

Exercise 4: Creating Java Packages

Task 1 – Creating the Java Packages

```
El número de serie del volumen es D887-56B3
C:.
L-com
L-mybank
|--domain
|--test
```

Task 2 – Moving and Modifying the Account Class

```
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;
    }
}</pre>
```

Task 3 – Moving the TestAccount Class

```
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> 

PS C:\Users\Ismael\Documents\Uasd2023-2\TeoProgramacion2\lab2>
```