

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from this bar, containing the date.

8/24/2023

Gabriella Rakgotsoka

Student Number: 20232605

Several thin, curved lines in dark blue and light grey originate from the bottom left corner and sweep upwards and to the right.

Gabriella Rakgotsoka

Table of Contents

Question 1	2
Code:	2
Display all account details.	3
Code:	3
Output:	3
Deposit the amount.	3
Code:	3
Output:	4
Save the amount.	4
Code:	4
Output:	4
Withdraw the amount	5
Code:	5
Output:	5
Exit	5
Code:	5
Output:	5
Completed Declaration of Authenticity	6

Question 1

1.1 Create a basic Java Application that will help CTU banking clients to perform basic transactions. The Application should meet the following menu requirements:

Code:

```
import java.util.*;

class BankAccount {
    static Scanner input = new Scanner(System.in);
    String name, actype;
    int accNo, bal, amt;
    double saved, rate1, rate2, rate3;

    BankAccount(String name, int accNo, String actype, int bal) {
        this.name = name;
        this.accNo = accNo;
        this.actype = actype;
        this.bal = bal;
    }

    int deposit() {
        System.out.print("Enter amount to deposit:");
        amt = input.nextInt();
        if (amt < 0) {
            System.out.println("Invalid Amount");
            return 1;
        }
        bal = bal + amt;
        return 0;
    }

    int withdraw() {
        System.out.println("Your Balance=" + bal);
        System.out.print("Enter amount to withdraw:");
        amt = input.nextInt();
        if (bal < amt) {
            System.out.println("Not sufficient balance.");
            return 1;
        }
        if (amt < 0) {
            System.out.println("Invalid Amount");
            return 1;
        }
        bal = bal - amt;
        return 0;
    }
}
```

Display all account details.

Code:

```
void display() {  
    System.out.println("Name:" + name);  
    System.out.println("Account No:" + accNo);  
    System.out.println("Balance:" + bal);  
}
```

Output:

```
Menu  
1. Deposit Amount  
2. Withdraw Amount  
3. Display Information  
4. Save Amount  
5. Exit  
Please enter your choice:  
3  
  
Name:Gabriella  
Account No:34232  
Balance:540  
Please enter your choice:
```

Deposit the amount.

Code:

```
int deposit() {  
    System.out.print("Enter amount to deposit:");  
    amt = input.nextInt();  
    if (amt < 0) {  
        System.out.println("Invalid Amount");  
        return 1;  
    }  
    bal = bal + amt;  
    return 0;  
}
```

Output:

```
Balance:540
Please enter your choice:
→ 1

Enter amount to deposit:
→ 500
```

Save the amount.

Code:

```
double saved() {
    rate1 = bal*0.005;
    rate2 = bal*0.02;
    rate3 = bal*0.05;
    if (bal >= 500) {
        System.out.println("You saved: "+ rate1);
    }
    if (bal >= 1000) {
        System.out.println("you saved: "+ rate2);
    }
    if (bal <= 1000) {
        System.out.println("You saved: "+ rate3);
    }
    return 0;
}
```

Output:

```
Please enter your choice:
4
You saved: 2.0
```

Withdraw the amount

Code:

```
int withdraw() {
    System.out.println("Your Balance=" + bal);
    System.out.print("Enter amount to withdraw:");
    amt = input.nextInt();
    if (bal < amt) {
        System.out.println("Not sufficient balance.");
        return 1;
    }
    if (amt < 0) {
        System.out.println("Invalid Amount");
        return 1;
    }
    bal = bal - amt;
    return 0;
}
```

Output:

```
Please enter your choice:
→ 2

Your Balance=1040
Enter amount to withdraw:
→ 1000
```

Exit

Code:

```
void exit() {
    System.out.println("Thank you! Goodbye :)");
}
```

Output:

```
Please enter your choice:
→ 5

Thank you! Goodbye :)
```

Completed Declaration of Authenticity

I Gabriella Rakgotsoka_____ hereby

(FULL NAME)

declare that the contents of this assignment JD521_FA1_____ is entirely my own work except for the following documents: (List the documents and page numbers of work in this portfolio

that were generated in a group)

Activity	Date

Signature:



_Date: 2023/08/24