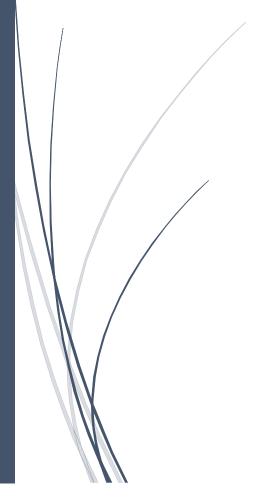
8/24/2023

# Gabriella Rakgotsoka

Student Number: 20232605



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) {</pre>
                         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) {</pre>
                         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:

## 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:

## 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;
}</pre>
```

### Output:

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

## Withdraw the amount

### Code:

## Output:

```
Please enter your choice:

→ 2

Your Balance=1040
Enter amount to withdraw:

→ 1000
```

## Fxit

### Code:

## 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_FA1own workexcept for the following documents: (List the documen numbers of work in this portfolio	
that were generated in a group)	
Activit	Dat
у	е
Signature: Date: 2023/08/24	