



SCHOOL OF DIGITAL TRANSFORMATION
BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)

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COURSE TITLE: Programming Fundamentals

COURSE CODE: BIT6133

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ASSIGNMENT TITLE: Java Bank System

I have designed a java bank system for this group assignment with required functionality where a user can deposit and take money from a specific account whenever they want. Adding in a validation input is present to allow only a certain amount of cash flows at any given time, as well with withdrawals if the balance is sufficient.

SOURCE CODE

```
import java.util.Scanner;

class BankDetails {

    private String accno;

    private String name;

    private String acc_type;

    private long balance;

    Scanner sc = new Scanner(System.in);

    //method to open new account

    public void openAccount() {

        System.out.print("Enter Your Account No: ");

        accno = sc.next();

        System.out.print("Enter Your Account type: ");

        acc_type = sc.next();

        System.out.print("Enter Your Name: ");

        name = sc.next();

        System.out.print("Enter Your Balance: ");

        balance = sc.nextLong();

    }

    //method to display account details
```

```
public void showAccount() {

    System.out.println("Name of account holder: " + name);

    System.out.println("Account no.: " + accno);

    System.out.println("Account type: " + acc_type);

    System.out.println("Balance: " + balance);

}

//method to deposit money

public void deposit() {

    long amt;

    System.out.println("Enter the amount you want to deposit: ");

    amt = sc.nextLong();

    balance = balance + amt;

}

//method to withdraw money

public void withdrawal() {

    long amt;

    System.out.println("Enter the amount you want to withdraw: ");

    amt = sc.nextLong();

    if (balance >= amt) {

        balance = balance - amt;

        System.out.println("Balance after withdrawal: " + balance);

    } else {

        System.out.println("Your balance is less than " + amt + "\nTransaction failed...!!" );

    }

}
```

```

    }

    //method to search an account number

    public boolean search(String ac_no) {

        if (accno.equals(ac_no)) {

            showAccount();

            return (true);

        }

        return (false);

    }

}

```

```

public class BankApp {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        //create initial accounts

        System.out.print("How many number of customers do you want to input? ");

        int n = sc.nextInt();

        BankDetails C[] = new BankDetails[n];

        for (int i = 0; i < C.length; i++) {

            C[i] = new BankDetails();

            C[i].openAccount();

        }

        // loop runs until number 5 is not pressed to exit
    }

}

```

```

int ch;

do {

    System.out.println("\n **Banking System Application**");

    System.out.println("1. Display all account details \n 2. Search by Account number\n
3. Deposit the amount \n 4. Withdraw the amount \n 5.Exit ");

    System.out.println("Enter your choice: ");

    ch = sc.nextInt();

    switch (ch) {

        case 1:

            for (int i = 0; i < C.length; i++) {

                C[i].showAccount();

            }

            break;

        case 2:

            System.out.print("Enter account no. you want to search: ");

            String ac_no = sc.next();

            boolean found = false;

            for (int i = 0; i < C.length; i++) {

                found = C[i].search(ac_no);

                if (found) {

                    break;

                }

            }

            if (!found) {

                System.out.println("Search failed! Account doesn't exist..!!");

```

```
}
```

```
break;
```

case 3:

```
System.out.print("Enter Account no. : ");
```

```
ac_no = sc.next();
```

```
found = false;
```

```
for (int i = 0; i < C.length; i++) {
```

```
    found = C[i].search(ac_no);
```

```
    if (found) {
```

```
        C[i].deposit();
```

```
        break;
```

```
    }
```

```
}
```

```
if (!found) {
```

```
    System.out.println("Search failed! Account doesn't exist..!!");
```

```
}
```

```
break;
```

case 4:

```
System.out.print("Enter Account No : ");
```

```
ac_no = sc.next();
```

```
found = false;
```

```
for (int i = 0; i < C.length; i++) {
```

```
    found = C[i].search(ac_no);
```

```
    if (found) {
```

```
        C[i].withdrawal();

        break;

    }

}

if (!found) {

    System.out.println("Search failed! Account doesn't exist..!!");

}

break;

case 5:

    System.out.println("See you soon...");

    break;

}

}

while (ch != 5);

}

}
```

SCREENSHOT OUTPUT



