

## JAVA ASSIGNMENT

Name - JUSHAR SINGH  
 ROLL - 2401730108

BTech CSE AI/ML "B"

```

import java.util.Scanner;
class Account {
    private int accountNumber;
    private String accountHolderName;
    private double balance;
    private String email;
    private String phoneNumber;
    public Account(int accountNumber, String Name,
        String email, String phoneNumber) {
        this.accountNumber = accountNumber;
        this.accountHolderName = name;
        this.balance = initialBalance;
        this.email = email;
        this.phoneNumber = phoneNumber;
    }
    public void deposit (double amount) {
        if (amount > 0) {
            balance += amount;
            System.out.println ("₹" + amount +
                " deposited successfully");
        } else {
            System.out.println ("Insufficient balance");
            System.out.println ("Deposit amount
                must be positive");
        }
    }
}
  
```



```

public void withdraw(double amount) {
    if (amount > 0) {
        if (balance >= amount) {
            balance -= amount;
            System.out.println("₹" + amount + "withdrawn");
        } else {
            System.out.println("withdrawal amount must be positive");
        }
    }
}

```

```

public void displayAccountDetails() {
    System.out.println("\n=== Account Details ===");
    System.out.println("Account Number: " + accountNumber);
    System.out.println("Name: " + accountHolderName);
    System.out.println("Balance: ₹" + balance);
    System.out.println("Email: " + email);
    System.out.println("Phone: " + phoneNumber);
}

```

```

public void updateContactDetails(String email, String
    phoneNumber) {
    this.email = email;
    this.phoneNumber = phoneNumber;
    System.out.println("contact details updated successfully");
}

```

```

public int getAccountNumber() {
    return accountNumber;
}
}

```



```
public class BankingApplication {
    private Account[] accounts;
    private int accountCount;
    private Scanner sc;

    public BankingApplication(int size) {
        accounts = new Account[size];
        accountCount = 0;
        sc = new Scanner(System.in);
    }

    public void createAccount() {
        System.out.println("enter holder name: ");
        String name = sc.nextLine();
        System.out.println("enter initial deposit amount");
        double initialDeposit = sc.nextDouble();
        sc.nextLine();
        System.out.print("enter phone number: ");
        String phone = sc.nextLine();
        int accountNumber = 1000 + accountCount + 1;
        accounts[accountCount++] = new Account(
            accountNumber, name, initialDeposit, email, phone);
        System.out.println("account created
        successfully with account number: " + accountNumber);
    }

    public void performDeposit() {
        System.out.print("enter account number: ");
        int accNo = sc.nextInt();
        System.out.print("enter amount to deposit: ");
        double amount = sc.nextDouble();
        sc.nextLine();
        Account acc = findAccount(accNo);
    }
}
```



```
if (acc != null) {  
    acc.deposit (amount);  
} else {  
    System.out.println("account not found");  
}  
  
public void performWithdrawal  
showAccountDetails () {  
    System.out.print("enter account number: ");  
    int accNo = sc.nextInt();  
    sc.nextLine();  
    Account acc = findAccount (accNo);  
    if (acc != null) {  
        System.out.print("enter amount to  
        withdraw: ");  
        double amount = sc.nextDouble();  
        sc.nextLine();  
        Account acc = findAccount (accNo);  
        if (acc != null) {  
            acc.withdraw (amount);  
        } else {  
            System.out.println("account not  
            found");  
        }  
    }  
}
```

```
public void showAccountDetails () {  
    System.out.print("enter account number: ");  
    int accNo = sc.nextInt();  
    sc.nextLine();  
    Account acc = findAccount (accNo);  
    if (acc != null) {  
        acc.displayAccountDetails ();  
    }  
}
```



```

    } else {
        System.out.println("Account not found");
    }
}

public void updateContact() {
    System.out.print("Enter account number: ");
    int accNo = sc.nextInt();
    sc.nextLine();
    System.out.print("Enter a new email: ");
    String email = sc.nextLine();
    System.out.print("Enter new phone number: ");
    String phone = sc.nextLine();
    Account acc = findAccount(accNo);
    if (acc != null) {
        acc.updateContactDetails(email, phone);
    } else {
        System.out.println("Account not found");
    }
}

private Account findAccount(int accNo) {
    for (int i = 0; i < accounts.length; i++) {
        if (accounts[i].getAccountNumber() ==
            accNo) {
            return accounts[i];
        }
    }
    return null;
}

```



```
public void mainMenu () {
```

```
    while (true) {
```

```
        System.out.println("\n == Welcome  
to Banking Application == ");
```

```
        System.out.println("1. create a  
new account ");
```

```
        System.out.println("2. Deposit money");
```

```
        System.out.println("3. Withdraw the  
money");
```

```
        System.out.println("4. View account  
details");
```

```
        System.out.println("5. update contact  
details");
```

```
        System.out.println("6. Exit");
```

```
        System.out.print("Enter your choice: ");
```

```
        int choice = sc.nextInt();
```

```
        sc.nextLine();
```

```
        switch (choice) {
```

```
            case 1: createAccount(); break;
```

```
            case 2: performDeposit(); break;
```

```
            case 3: performWithdrawal(); break;
```

```
            case 4: showAccountDetails(); break;
```

```
            case 5: updateContact(); break;
```

```
            case 6:
```

```
                System.out.println("Thank  
you for using the Banking  
Application!");
```

```
                return;
```

```
            default:
```

```
                System.out.println("Invalid  
choice! Try again.");
```

```
    }  
    }  
}  
  
public static void main (String [] args) {  
    BankingApplication app = new  
    app.mainMenu();  
}
```

```
}
```