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Java Assignment

1.
```
import java.util.Scanner;

class Account {
    int accountNumber;
    String name, email, phone;
    double balance;

    void deposit (double amount) {
        if (amount > 0) {
            balance += amount;
            System.out.println ("Deposited " + amount
+ ". New Balance: " + balance);
        } else {
            System.out.println ("Amount must be
positive!");
        }
}

    void withdraw (double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            System.out.println ("Withdrawn " + amount
+ ". Remaining Balance: " + balance);
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        } else {
            System.out.println("Invalid amount or
insufficient balance!");
        }
    }

    void display() {
        System.out.println("\nAccount No: " +
accountNumber);
        System.out.println("Holder Name: " + name);
        System.out.println("Balance: " + balance);
        System.out.println("Email: " + email);
        System.out.println("Phone: " + phone);
    }

    void updateContact(String newEmail, String
newPhone) {
        email = newEmail;
        phone = newPhone;
        System.out.println("Contact details updated!"
);
    }

}
```

```
class BankingApp {
    Account[] accounts = new Account[100];
    int count = 0;
    Scanner sc = new Scanner(System.in);

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

    void createAccount() {
        Account acc = new Account();
        acc.accountNumber = 1001 + count;
        System.out.print("Enter Name: "); acc.name =
sc.nextLine();
        System.out.print("Enter Initial Deposit: ");
acc.balance = sc.nextDouble(); sc.nextLine();
        System.out.print("Enter Email: "); acc.email
= sc.nextLine();
        System.out.print("Enter Phone: "); acc.phone
= sc.nextLine();
        accounts[count++] = acc;
```

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        System.out.println("Account created! Your
Account No: " + acc.accountNumber);
    }

    void depositMoney(){
        System.out.print("Enter Account No: "); int
accNo = sc.nextInt();
        System.out.print("Enter Amount: "); double
amt = sc.nextDouble(); sc.nextLine()
        Account acc = findAccount(accNo);

        if (acc != null) acc.deposit(amt);
        else System.out.println("Account not found!"
);
    }

    void withdrawMoney(){
        System.out.print("Enter Account No: "); int
accNo = sc.nextInt();
        System.out.print("Enter Amount: "); double
amt = sc.nextDouble(); sc.nextLine();
        Account acc = findAccount(accNo);
        if (acc != null) acc.withdraw(amt);
        else System.out.println("Account not found!"
);
```

```
    }
    void viewAccount(){
        System.out.print("Enter Account No: "); int
accNo = sc.nextInt(); sc.nextLine();
        Account acc = findAccount(accNo);
        if(acc != null) acc.display();
        else System.out.println("Account not found! "
);
    }

    void updateContact(){
        System.out.print("Enter Account No: "); int
accNo = sc.nextInt(); sc.nextLine();
        Account acc = findAccount(accNo);
        if (acc != null){
            System.out.print("Enter New Email: ");
String email = sc.nextLine();
            System.out.print("Enter New Phone: ");
String phone = sc.nextLine();
            acc.updateContact(email, phone);
        } else System.out.println("Account not found
!");
    }
    void menu(){
        int choice;
```

```
        do{
            System.out.println("\n1. Create 2. Deposit
3. Withdraw 4. View 5. Update 6. Exit");
            System.out.print("Enter choice: ");
            choice = sc.nextInt(); sc.nextLine();
            switch(choice){
                case 1 -> createAccount();
                case 2 -> depositMoney();
                case 3 -> withdrawMoney();
                case 4 -> viewAccount();
                case 5 -> updateContact();
                case 6 -> System.out.println("
Goodbye!");
                default -> System.out.println("
Invalid choice!");
            }
        }while(choice != 6);
    }
    public static void main(String[] args){
        new BankingApp().menu();
    }
}
```