TASK -3

ATM.JAVA

```
package Task3;
import java.util.Scanner;
public class ATM {
private BankAccount account;
public ATM(BankAccount account) {
this.account = account;
}
public void start() {
Scanner scanner = new Scanner(System.in);
boolean running = true;
while (running) {
System.out.println("Welcome to the ATM!");
System.out.println("1. Withdraw");
System.out.println("2. Deposit");
System.out.println("3. Check Balance");
System.out.println("4. Exit");
System.out.print("Please choose an option: ");
int choice = scanner.nextInt();
switch (choice) {
case 1:
withdraw(scanner);
break;
case 2:
deposit(scanner);
break;
case 3:
```

```
checkBalance();
break;
case 4:
running = false;
System.out.println("Thank you for using the ATM. Goodbye!");
break;
default:
System.out.println("Invalid option. Please try again.");
}
}
scanner.close();
}
private void withdraw(Scanner scanner) {
System.out.print("Enter amount to withdraw: ");
double amount = scanner.nextDouble();
if (account.withdraw(amount)) {
System.out.println("Withdrawal successful. Please take your cash.");
} else {
System.out.println("Insufficient balance. Withdrawal failed.");
}
}
private void deposit(Scanner scanner) {
System.out.print("Enter amount to deposit: ");
double amount = scanner.nextDouble();
account.deposit(amount);
System.out.println("Deposit successful.");
}
private void checkBalance() {
System.out.println("Your current balance is: $" + account.getBalance());
```

```
}
}
```

BANK.jAVA

```
package Task3;
public class BankAccount {
private double balance;
public BankAccount(double initialBalance) {
this.balance = initialBalance;
}
public double getBalance() {
return balance;
}
public void deposit(double amount) {
if (amount > 0) {
balance += amount;
}
}
public boolean withdraw(double amount) {
if (amount > 0 && amount <= balance) {
balance -= amount;
return true;
} else {
return false;
}
}
}
```

MAIN.JAVA

```
package Task3;
public class Main {
```

public static void main(String[] args) {

// **TODO** Auto-generated method stub

BankAccount account = new BankAccount(1000.00); // Initial balance

ATM atm = new ATM(account);

atm.start();

}

}

Screenshot: