TASK 3 – ATM INTERFACE

**package** javaintern;

**import** java.util.Scanner;

**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;

System.***out***.println("Deposit successful. Current balance: " + balance);

} **else** {

System.***out***.println("Invalid deposit amount.");

}

}

**public** **void** withdraw(**double** amount) {

**if** (amount > 0 && amount <= balance) {

balance -= amount;

System.***out***.println("Withdrawal successful. Current balance: " + balance);

} **else** {

System.***out***.println("Invalid withdrawal amount or insufficient balance.");

}

}

**public** **void** checkBalance() {

System.***out***.println("Current balance: " + balance);

}

}

**class** ATM {

**private** BankAccount account;

**public** ATM(BankAccount account) {

**this**.account = account;

}

**public** **void** start() {

Scanner scanner = **new** Scanner(System.***in***);

**while** (**true**) {

System.***out***.println("\nATM Menu:");

System.***out***.println("1. Withdraw");

System.***out***.println("2. Deposit");

System.***out***.println("3. Check Balance");

System.***out***.println("4. Exit");

System.***out***.print("Choose an option: ");

**int** option = scanner.nextInt();

**switch** (option) {

**case** 1:

System.***out***.print("Enter amount to withdraw: ");

**double** withdrawAmount = scanner.nextDouble();

account.withdraw(withdrawAmount);

**break**;

**case** 2:

System.***out***.print("Enter amount to deposit: ");

**double** depositAmount = scanner.nextDouble();

account.deposit(depositAmount);

**break**;

**case** 3:

account.checkBalance();

**break**;

**case** 4:

System.***out***.println("Exiting ATM. Thank you for using our service!");

scanner.close();

**return**;

**default**:

System.***out***.println("Invalid option. Please try again.");

}

}

}

**public** **static** **void** main(String[] args) {

BankAccount account = **new** BankAccount(1000.0);

ATM atm = **new** ATM(account);

atm.start();

}

}