

# Java Program For ATM Operations

24B01A4569

Likhita Grandhi

## Description:

This is a simple Java program that simulates basic banking operations using console input. It allows a user to:

Enter a 4-digit PIN (with only 3 attempts allowed)

**Perform banking operations such as:**

1. Withdraw money
2. Make a payment
3. Deposit money

## Program:

```
import java.util.*;
import java.lang.*;

class check {

    int pas = 3506;
    float bal = 10000;
    int i = 0;

    boolean pass(int p) {
        boolean flag = false;
        if (p < 1111 || p > 9999)
            System.out.println("Please Enter PIN in between 1111 and 9999");
        if (p == pas) {
            flag = true;
        } else {
```

```
i++;  
if (i >= 3) {  
    System.out.println("Invalid, Transaction is blocked for 24hrs");  
    System.exit(0);  
} else {  
    System.out.println("Wrong PIN.");  
}  
}  
return flag;  
}
```

```
void Withdraw(int am) {  
    if (am > 0 && am % 100 == 0 && am <= bal) {  
        bal -= am;  
        System.out.println("Withdraw Amount: " + am);  
        System.out.println("Balance Amount: " + bal);  
        System.out.println("Transaction completed successfully");  
    } else {  
        System.out.println("Insufficient Fund or Invalid Amount");  
    }  
}
```

```
void Payment(float am) {  
    if (am > 0 && am <= bal) {  
        bal -= am;  
        System.out.println("Payment successful");  
    } else {  
        System.out.println("Insufficient Fund");  
    }  
}
```

```

    }

    System.out.println("Balance Amount: " + bal);
}

void Deposit(int am) {
    if (am > 0 && am % 100 == 0) {
        bal += am;

        System.out.println("Deposited Amount: " + am);
        System.out.println("Balance Amount: " + bal);
        System.out.println("Transaction completed successfully");
    } else {
        System.out.println("Invalid Deposit Amount");
    }
}
}
}

```

```

public class ATMSystem {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        check c = new check();

        while (true) {
            System.out.print("Enter Password: ");

            int password = sc.nextInt();

            if (c.pass(password)) {
                break;
            }
        }
    }
}

```

```
boolean transactionDone = false;

    sc.nextLine();

    System.out.print("1. Withdraw\n2. Payment\n3. Deposit ");
System.out.print("\nChoice:");

    int choice = sc.nextInt();

    switch (choice) {
        case 1:
            System.out.print("Enter amount to Withdraw:");

            int a = sc.nextInt();

            c.Withdraw(a);

            break;
        case 2:
            System.out.print("Enter amount to do Payment:");

            float am = sc.nextFloat();

            c.Payment(am);

            break;
        case 3:
            System.out.print("Enter amount to Deposit:");

            int amo = sc.nextInt();

            c.Deposit(amo);

            break;
        default: System.out.println("Invalid Choice");
    }

    if (transactionDone)

        System.out.println("To Continue or not?");
}
```

}

## Outputs:

```
C:\Users\Likhita\Desktop\java programs>java Bank.java
Enter Password: 3506
1. Withdraw
2. Payment
3. Deposit
Choice:1
Enter amount to Withdraw:3000
Withdraw Amount: 3000
Balance Amount: 7000.0
Transaction completed successfully
```

```
Enter Password: 3506
1. Withdraw
2. Payment
3. Deposit
Choice:2
Enter amount to do Payment:350
Payment successful
Balance Amount: 9650.0
```

```
Enter Password: 3506
1. Withdraw
2. Payment
3. Deposit
Choice:3
Enter amount to Deposit:2000
Deposited Amount: 2000
Balance Amount: 12000.0
Transaction completed successfully
```

```
C:\Users\Likhita\Desktop\java programs>java Bank.java
Enter Password: 2222
Wrong PIN.
Enter Password: 3333
Wrong PIN.
Enter Password: 4444
Invalid, Transaction is blocked for 24hrs
```

```
Enter Password: 0000
Please Enter PIN in between 1111 and 9999
Wrong PIN.
Enter Password: 3555
Wrong PIN.
Enter Password: 3456
Invalid, Transaction is blocked for 24hrs
```

```
C:\Users\Elkinn\Desktop\java programs> java
Enter Password: 3506
1. Withdraw
2. Payment
3. Deposit
Choice:2
Enter amount to do Payment:12000
Insufficient Fund
Balance Amount: 10000.0
```

```
C:\Users\Elkinn\Desktop\java program>
Enter Password: 3506
1. Withdraw
2. Payment
3. Deposit
Choice:1
Enter amount to Withdraw:11000
Insufficient Fund or Invalid Amount
```