Tutorial: How to run the program

1. Find java file "ATMDriver" and run. Main function is here.

```
▼ ⊞ CS586.mda
   ▶ J ATM1Driver.java
   ▶ J ATM2Driver.java
   ▶ J ATM3Driver.java
   ▶ J ATMDriver.java
```

2. Input ATM number you want to login in main menu.

```
🎭 Problems  @ Javadoc  📑 Declaration  🖥 Console ⊠
ATMDriver [Java Application] /Library/Java/JavaVirtualMachines/jdk1.7.(
Welcome to use ATM.
Author: Zixiong Miao.
Please input ATM number you want to login:
```
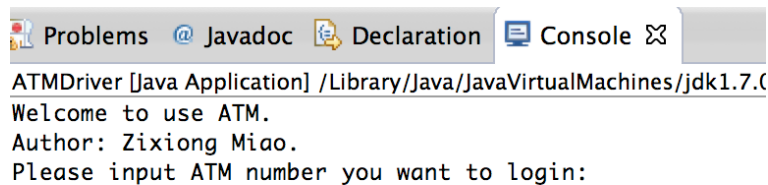
3. Take ATM3 as an example. Input 3 and enter, then user will see ATM3's menu.

```
ATMDriver [Java Application] /Library/Java/JavaVirtualMachines/jdk1.7.0_51.jdk/Contents/Home/bin/java (May 5, 2014, 11:01:44 AM)
Welcome to use ATM.
Author: Zixiong Miao.
Please input ATM number you want to login:
3
ATM 3 :
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Please input card information.
```

4. Note: Please input card information directly. No need to choose '1' for card information again here. In this example first int is balance, second one is pin. Use comma between balance and pin. No space is allowed during input.

```
Welcome to use ATM.
Author: Zixiong Miao.
Please input ATM number you want to login:
3
ATM 3 :
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Please input card information.
600,123
```

5. After input card information, user should do pin check(#2 in menu).

```
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Please input card information.
600,123
Card information is initiallized.
Press 0 return to menu.
0
ATM 3 :
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Press 0 return to menu.
2
Please input pin:
123
Correct PIN. You can deposit/withdraw now.
Press 0 return to menu.
```

6. After pin check, user can deposit or withdraw. Choose 3 for deposit. Choose 4 for withdraw. Choose 5 for checking balance. Here withdraw 120 dollars as an example. Because ATM3 has no penalty. So after withdrawing 120 dollars, the balance is 480 dollars.

```
ATM 3 :
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Press 0 return to menu.
4
Please input withdraw money :
120
Finish withdraw. Take your money please.
Press 0 return to menu.
0
ATM 3 :
MENU :
1. card(int, int)2. pin(int)3. deposit(int)4. withdraw(int)5. balance()6. exit()7. lock()8. unlock()9. Quit the demo program
Press 0 return to menu.
5
Your balance is 480
Press 0 return to menu.
```

7. If we use ATM2, user's balance is 600.12 and withdraw 120.9. After penalty, the result is listed as follows:

```
ATM 2 :
MENU :
1. card(float, int) 2. pin(int) 3. deposit(float) 4. withdraw(float) 5. balance() 6. exit() 9. Quit the demo program
Press 0 return to menu.
4
Input withdraw money :
120.9
Finish withdraw. Take your money please.
Press 0 return to menu.
0
ATM 2 :
MENU :
1. card(float, int) 2. pin(int) 3. deposit(float) 4. withdraw(float) 5. balance() 6. exit() 9. Quit the demo program
Press 0 return to menu.
5
Your balance is 459.22
Press 0 return to menu.
```

So the correctness of this program is guaranteed.