

Intro to Python: Project 3

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1 Introduction

For this project, you will utilize data input, else-if ladders and data modification in order to create a working ATM. The program will have the user create a username and password and validate the login to ensure the correct login was used. It will then ask the user if they would like to withdraw or deposit money and preform the designated operation.

2 Implementation

2.1 Account Creation

For this step, have the user create a username and password and create an arbitrary starting balance.

2.2 Login and Verification

For this step, have the user login into the ATM and verify that the created account information matches the login information. Upon a successful sign-in, show the user their balance and ask them to decide if they want to withdraw or deposit money. For unsuccessful login attempts, inform the user of their error and end the program EX: Tell user if they entered the wrong username or password.

2.3 Withdraw step

If the user would like to withdraw money, ask the user how much they would like to withdrawl and ensure that the user has enough money to complete the transaction. If the user does not have enough money to complete the transaction, inform the user and end the program.

2.4 Deposit step

If the user would like to deposit money, ask the user how much they would like to deposit and add that amount to their balance.

2.5 Successful Transaction Completion

Thank the user for using the ATM if a successful transaction occurs(Correct username and password, Correct Withdraw and/or deposit)

3 Example Outputs

```
C:\Users\akami_000\Documents\GitHub\Projects\Sci-Tech Intro to Python>python ATM.py
Registration Form

Please create a username: aaron
Please create a password: aaron
Welcome to the ATM, Please login!
Please enter a username: aaron
Please enter a password: aaron
Login complete
You have a balance of $500
Would you like to withdrawl(w) or deposit(d): w
How much would you like to withdraw? 500
You withdrew $500
Thank you for using the ATM
```

Figure 1: Successful Transaction

```
Registration Form

Please create a username: aaron
Please create a password: aaron
Welcome to the ATM, Please login!
Please enter a username: aaron
Please enter a password: aaron
Login complete
You have a balance of $500
Would you like to withdrawl(w) or deposit(d): w
How much would you like to withdraw? 1000
You do not have enough money to complete the transaction
```

Figure 2: Unsuccessful Withdraw Transaction

```
Registration Form

Please create a username: aaron
Please create a password: aaron
Welcome to the ATM, Please login!
Please enter a username: aaron
Please enter a password: banana
The Password is incorrect.
```

Figure 3: Unsuccessful Login