

Create a banking app using OOP's based programming The App should have the following features

Simple Tasks

- 1. Create account (During account creation username, password and the initial depoist amount should be specified.)
- 2. The account holders should be able to login and logout from the account using password.
- 3. Account holders should be allowed to credit and debit Money.

Difficult Tasks

- 1. Remove account Holder
- 2. The app should have checks which limits the withrawal of amount bigger than the cuurent balance in the account.

Defining the account holder class

```
In [ ]:
          class AccountHolder():
              def __init__(self,user_name,password,initial_deposit):
                  self.user name = user name
                  self.password = password
                  self.bal = initial deposit
                  self.login_check = False
              def login(self,pwd):
                  if self.password == pwd:
                      self.login_check = True
                      print("logged in")
                      login_menu(self)
                  else:
                      print("wrong password")
              def deposit(self,amt):
                  self.bal = self.bal+amt
                  print("current balance:",self.bal)
              def withdraw(self,amt):
                  if self.bal>=amt:
                      self.bal = self.bal-amt
                      print("current balance:",self.bal)
                      print("not sufficient balance")
```

```
def logout(self):
    self.login_check = False
    print("Logout successful")
```

Global list used to store the account holder objects

```
In [ ]: acc_hold = []
```

Global variables used for program state

```
In [ ]:  # variables used to check the state of things
   running = True
```

Login Menu

```
def login_menu(user):
    while user.login_check:
        print("For deposit press 1: ")
        print("For withdrawal press 2: ")
        print("For logout press 3: ")

        x = int(input("Enter your choice: "))

        if x == 1:
            dep = int(input("Enter deposit amount: "))
            user.deposit(dep)

        elif x == 2:
            wit = int(input("Enter withdrawl amount: "))
            user.withdraw(wit)

        elif x == 3:
            user.logout()
```

Function exit the banking app

```
def exit():
    global running
    print("closing the app")
    running = False
```

Fucntion to find user object from the list of account holders

```
def find_user(user_name):
    user = None
    for acc in acc_hold:
        if acc.user_name == user_name:
            user = acc
            break
    else:
        user = None
    return user
```

Function for the main menu of the banking app

```
In [ ]:
          def main_menu():
              print("Welcome to the banking app.")
              print("For login press 1: ")
              print("For creating new account press 2: ")
              print("For exiting the app press 3: ")
              x = int(input("Enter your choice: "))
              if x == 1:
                  user_name = input("Entet the user name : ")
                  password = input("Entet the password : ")
                  user = find user(user name)
                  if user == None:
                      print("Please check the user name")
                  else:
                      user.login(password)
              elif x == 2:
                  user_name = input("Entet the user name: ")
                  password = input("Entet the password: ")
                  int_dep = int(input("Enter a deposit amount: "))
                  user = find_user(user_name)
                  if user == None:
                      acc_hold.append(AccountHolder(user_name,password,int_dep))
                      print("Account created successfully")
                      print("Username already exists")
              elif x == 3:
                  exit()
```

While true loop to keep the app running.

```
In [ ]:
    while running:
        main_menu()
```

Home work

- 1. Add a methods that allows the user to check his current balance. This should also be provided as a option in the login_menu function
- 2. Add a method that does login and logout animation

```
In []:
```