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#ATM (AUTOMATED TELLER MACHINE)
"""
Problem Statement:
you need to implement a system i.g ATm with below functionalties
1. A/C balance check
2. Cash withdraw
3. Cash deposit
4. ATM PIN change
"""


# ATM (ALL TIME MONEY)

opening_balance= 20000
current_pin= 1234

def display_balance():
  print("your A/C balance is ${}".format(opening_balance))


def cash_withdraw(withdrawal_amount):
  global opening_balance

print("your A/C balance is ${}". format(opening_balance))
opening_balance == opening_balance- withdraw_amount
print("your updated A/C balance is ${}". format(opening_balance))



def cash_deposit():
  global opening_balance
  print("your A/C balance is ${}". format(opening_balance))
  opening_balance == opening_balance + deposit_amount
  print("your updated A/C balance is ${}". format(opening_balance))


def change_pin(old_pin, new_pin):
  global current_pin

  if not old_pin == current_pin:
    print("invalid old PIN,try again or visit the nearest branch")

  else:
    current_pin = new_pin
    print('ATM Card PIN ending with xx23 is updated succesfully!')


# Interface or frontend (CLI i.e Commmand line interface)
choice= None
amount=None
old_pin=None
new_pin= None
while True:
  print("""Welcome to XYZ Bank
  1.check A/C Balance
  2.Cash withdraw
  3. Cash Depoist
  4. Change PIN""")
  choice = int(input("please enter choice:"))
  if choice == 1:
    display_balance()
  elif choice ==2:
    amount = int(input("Enter Withdrawl Amount:"))
    cash_withdraw(amount)



  elif choice==3:
    amount= int(input(" Enter deposit amount:"))
    cash_deposit(amount)

  elif choice ==4:
    old_pin = int(input("enter your current PIN:"))
    new_pin = int(input("Enter new PIN:"))
    change_pin(old_pin,new_pin)
  else:
    print("invalid choice")
```

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Welcome to XYZ Bank
  1.check A/C Balance
  2.Cash withdraw
  3. Cash Depoist
  4. Change PIN


"""Further improvements:
1. integration with database
2.code enhancement
3.design pattern
4. logger test cases
5. functionally improvement i.g asking user to enter the pin two times etc.
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