

# ATM MACHINE PYTHON PROJECT

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In [4]: import random
import sys
import datetime as dt

class ATM():
    def __init__(self, name, account_number, pin, balance = 100000):
        self.name = name
        self.account_number = account_number
        self.pin = pin
        self.balance = balance

    def account_detail(self):
        print("\n-----ACCOUNT DETAIL-----")
        print(f"Account Holder: {self.name.upper()}")
        print(f"Account Number: {self.account_number}")
        print(f"Available balance: Nu.{self.balance}\n")

    def deposit(self, amount):
        self.amount = amount
        self.balance = self.balance + self.amount
        print("Current account balance: Nu.", self.balance)
        print()

    def withdraw(self, amount):
        self.amount = amount
        if self.amount > self.balance:
            print("Insufficient fund!")
            print(f"Your balance is Nu.{self.balance} only.")
            print("Try with lesser amount than balance.")
            print()
        else:
            self.balance = self.balance - self.amount
            print(f"Nu.{amount} withdrawal successful!")
            print("Current account balance: Nu.", self.balance)
            print()

    def check_balance(self):
        print("Available balance: Nu.", self.balance)
        print()

    def transaction(self):
        print("""
        TRANSACTION
        *****
        Menu:
        1. Account Detail
        2. Check Balance
        3. Deposit
        4. Withdraw
        5. Exit
        *****
        """)

        while True:
            try:
                option = int(input("Enter 1, 2, 3, 4 or 5:"))
            except:
                print("Error: Enter 1, 2, 3, 4, or 5 only!\n")
```

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        continue
    else:
        if option == 1:
            atm.account_detail()
            break
        elif option == 2:
            atm.check_balance()
            break
        elif option == 3:
            amount = int(input("How much you want to deposit(Nu.):"))
            atm.deposit(amount)
            break
        elif option == 4:
            amount = int(input("How much you want to withdraw(Nu.):"))
            atm.withdraw(amount)
            break
        elif option == 5:
            date=dt.datetime.now()
            print(f"""
printing receipt.....
*****
***{date}***
Transaction is now complete.
Transaction number: {random.randint(10000, 1000000)}
Account holder: {self.name.upper()}
Account number: {self.account_number}
Available balance: Nu.{self.balance}

Thanks for choosing us as your bank
*****
""")
            sys.exit()
date=dt.datetime.now()
print("*****WELCOME TO BANK OF INDIA*****")
print("_____ \n")
print(date)
print("-----ACCOUNT CREATION-----")
name = input("Enter your name: ")
account_number = input("Enter your account number: ")
pin=int(input('Enter your pin'))
print("Congratulations! Account created successfully.....\n")

atm = ATM(name, account_number,pin)

while True:
    trans = int(input('Enter your 4 digit pin'))
    if pin == trans:
        atm.transaction()
        a=input("Do you Want Continue y or n")
        if a=='y':
            atm.transaction()
            break
        elif a=='n':
            print("""
-----
| Thanks for choosing us as your bank |
| Visit us again!                    |
-----
""")
    else:
        print("***Wrong pin! try again***")
        break

```

\*\*\*\*\*WELCOME TO BANK OF INDIA\*\*\*\*\*

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2023-05-08 20:10:57.597547

-----ACCOUNT CREATION-----

Enter your name: Darshan Gavhankar

Enter your account number: 12345678

Enter your pin1998

Congratulations! Account created successfully.....

Enter your 4 digit pin1998

#### TRANSACTION

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Menu:

1. Account Detail
2. Check Balance
3. Deposit
4. Withdraw
5. Exit

\*\*\*\*\*

Enter 1, 2, 3, 4 or 5:1

-----ACCOUNT DETAIL-----

Account Holder: DARSHAN GAVHANKAR

Account Number: 12345678

Available balance: Nu.100000

Do you Want Continue y or ny

#### TRANSACTION

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Menu:

1. Account Detail
2. Check Balance
3. Deposit
4. Withdraw
5. Exit

\*\*\*\*\*

Enter 1, 2, 3, 4 or 5:4

How much you want to withdraw(Nu.):5000

Nu.5000 withdrawal successful!

Current account balance: Nu. 95000