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File Edit Selection View Go Run Terminal Help project.py - work - Visual Studio Code
Untitled-1.ipynb py.py project.py DA\_project_bank digu.ipynb project.py \ x practice.py
project.py > ...
1
2 #####
3 ##### Passbook Management System #####
4
5 from tabulate import tabulate
6 import mysql.connector as m
7 import maskpass
8 from datetime import datetime
9 import pandas as pd
10 import random
11
12 """ mydatabase=m.connect(host='localhost',user='root',password='mysql@1234')
13 cursor=mydatabase.cursor()
14 cursor.execute("create database bank_project") """
15
16 mydatabase=m.connect(host='localhost',user='root',password='mysql@1234',database='bank_project')
17 cursor=mydatabase.cursor()
18 cursor.execute("""CREATE TABLE IF NOT EXISTS account_details (account_number INT PRIMARY KEY, name VARCHAR(20), psw VARCHAR(20) NOT NULL, loc VARCHAR(30), gender ENUM('M', 'F', 'O') NOT NULL,
19 cursor.execute("create table IF NOT EXISTS txhist(acc_no int, withdraw int default 0,credit int default 0,total int default 0,tx_date datetime)")
20
21 def acc_number():
22     s='433'
23     n=6
24     for i in range(n):
25         s=s+chr(random.randint(48,57))
26     def catch(a):
27         while True:
28             cursor.execute("select * from account_details where account_number=%s",[a])
29             r=cursor.fetchall()
30             if r==[]:
31                 return int(s)
32             else:
33                 continue
34     return catch(s)
35
36 def create_account():
37     an=acc_number()
38     try:
39         query="insert into account_details(account_number,name,psw,loc,gender,balance) values(%s,%s,%s,%s,%s,%s)"
40         nam=input("Enter your name: ").upper()
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project.py > ...
35
36 def create_account():
37     an=acc_number()
38     try:
39         query="insert into account_details(account_number,name,psw,loc,gender,balance) values(%s,%s,%s,%s,%s,%s)"
40         nam=input("Enter your name: ").upper()
41         if any(char.isdigit() for char in nam):
42             print("\n")
43             print("Please enter a valid name without any numbers.")
44             print("\n")
45             return
46         # location is only string type
47         loc=input("enter location: ")
48
49         gen=input("what is your gender?(M/F/O): ").upper()
50
51         bal=round(float(input("deposit some amount please!(minimum limit is 1000): ")),3)
52         if bal<1000:
53             print("\nplease enter ammount above 1000\n")
54             print("let's try again")
55             return create_account()
56         psw=maskpass.advpass("Create a password: ")
57         if psw !='':
58
59             cursor.execute(query,[an,nam,psw,loc,gen,bal])
60             mydatabase.commit()
61             print("\n")
62             print("\nCongrats! Mr./Mrs. "+nam)
63             print("Your account has been created, and your account number is " + str(an))
64             print("\n")
65         else:
66             print("please enter your password")
67     except:
68         print("\nAlert!! you are entering wrong input")
69         print("let's try again...\n")
70
71
72 def check_balance():
73     try:
74         an=int(input("enter the account number please!: "))
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project.py > ...
72 def check_balance():
73     try:
74         an=int(input("enter the account number please!: "))
75         psw=maskpass.advpas("Enter the password: ")
76         cursor.execute("select * from account_details where account_number=%s and psw=%s",(an,psw))
77         result=cursor.fetchall()
78         if result!=[]:
79             print()
80             table=[["account_number","name","loc","balance"],[result[0][0],result[0][1],result[0][3],result[0][5]]]
81             print(tabulate(table))
82             print()
83         else:
84             print("\nYou are not inserting the correct info ")
85             print("please try again\n")
86     except:
87         print("\nplease insert correct input\n")
88
89 def deposit_ammount():
90     bal=round(float(input("enter the deposite amount: ")),3)
91     if bal>0:
92         an=int(input("enter the account number please!: "))
93         cursor.execute("select account_number from account_details")
94         r=cursor.fetchall()
95         for i in r:
96             if an in i:
97                 print("\nProcessing")
98                 cursor.execute("update account_details set balance=balance+%s where account_number=%s",[bal,an])
99                 print("credited successfully\n")
100                 cursor.execute("select * from account_details where account_number=%s",[an,])
101                 result=cursor.fetchall()
102                 total=result[0][5]
103                 print("now available balance is: "+str(total))
104                 print("\n")
105                 q1="insert into txhist(acc_no,credit,total,tx_date) values(%s,%s,%s,%s)"
106                 a=datetime.now()
107                 cursor.execute(q1,(an,bal,total,a))
108                 mydatabase.commit()
109                 break
110             else:
111                 print("\nThere is no account with the account number "+ str(an) + " .")
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File Edit Selection View Go Run Terminal Help project.py - work - Visual Studio Code
project.py \ X practice.py
project.py > ...
144
145 def get_tx_hist():
146     try:
147         acc_no=int(input("plz enter ur acc_no: "))
148         psw=maskpass.advpas()
149
150         q1="select * from account_details where account_number=%s"
151         cursor.execute(q1,[acc_no,])
152         result=cursor.fetchall()
153
154         if psw==result[0][2]:
155             if acc_no==result[0][0]:
156                 cursor.execute("select * from txhist where acc_no=%s",[acc_no,])
157                 result=cursor.fetchall()
158                 if result!=[]:
159                     print("\n")
160                     p=pd.DataFrame(result,columns=["acc_no","withdraw","credit","total","tx_date"])
161                     print(p.to_string(index=False))
162                     "" p = pd.DataFrame(result, columns=["acc_no","withdraw","credit","total","tx_date"])
163                     p = p.reset_index()
164                     p["index"] = p["index"] + 1
165                     print(p.to_string(index=False)) ""
166
167                     print()
168             else:
169                 print("no tr. happens till now")
170                 print("\n")
171             else:
172                 print("acc_no is invalid")
173             else:
174                 print("password is incorrect")
175         except:
176             print("you are not entering correct input")
177
178
179 while True:
180     try:
181         print(""" ##### MENU #####
182         1. Create Account\n\t2. Check Balance\n\t3. Deposit an Amount\n\t4. Withdraw an Amount\n\t5. see your transaction history\n\t0. Exit""")
183         num=int(input("Please enter your choice (between 0 to 4): "))
```

```
File Edit Selection View Go Run Terminal Help project.py - work - Visual Studio Code
project.py \ X practice.py
project.py > ...
162         "" p = pd.DataFrame(result, columns=["acc_no","withdraw","credit","total","tx_date"])
163         p = p.reset_index()
164         p["index"] = p["index"] + 1
165         print(p.to_string(index=False)) ""
166
167         print()
168     else:
169         print("no tr. happens till now")
170         print("\n")
171     else:
172         print("acc_no is invalid")
173     else:
174         print("password is incorrect")
175 except:
176     print("you are not entering correct input")
177
178
179 while True:
180     try:
181         print(""" ##### MENU #####
182         1. Create Account\n\t2. Check Balance\n\t3. Deposit an Amount\n\t4. Withdraw an Amount\n\t5. see your transaction history\n\t0. Exit""")
183         num=int(input("Please enter your choice (between 0 to 4): "))
184         match(num):
185             case 0:
186                 print("Thank you for ur banking transaction")
187                 break
188             case 1:create_account()
189             case 2:check_balance()
190             case 3:deposit_ammount()
191             case 4:withdraw_ammount()
192             case 5:get_tx_hist()
193             case _ :print("\ninvalid choice\n")
194         except:
195             print("\nOooooops.....you are not entering correct input!\n")
196
197
```