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In [ ]:
In [1]:
        import datetime as date
         import mysql.connector as sql
         from curses.ascii import isalpha, isdigit
        SpecialSym = ['$', '@', '#', '%']
         dates1 = date.datetime.now()
         mycon = sql.connect(host="localhost", user="root", password="root", database="dhanu")
         mycur = mycon.cursor()
         while True:
            print("\n")
             print("
            print("************* Welcome To Colony Bank Of India ****************************
            print("
            print("Press 1 to for Sign Up ")
            print("Press 2 to for Sign In ")
            print("Press 3 to quit")
            try:
                ch = int(input("Enter Your Choice : "))
                if ch < 1 or ch > 3:
                     raise ValueError("Oops! That was not a valid number. Try again...:( ")
                if ch == 1:
                     while True:
                        try:
                             ut = input("Enter Your Name Here: ")
                            if any(char in SpecialSym or char in ".!?,&*=" for char in ut):
                                 raise TypeError
                             break
                         except TypeError:
                            print("Special Characters are not allowed like . , @ # $ % * & = < > ? !")
                     while True:
                        try:
                             p = input("Enter Your User Name: ")
                            if any(char in SpecialSym or char in ".!?,&*=" for char in p):
                                 raise TypeError
                             break
                         except TypeError:
                             print("Special Characters are not allowed like . , @ # $ % * & = < > ? !")
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while True:
   try:
        z = input("Enter Your Password: ")
        if len(z) < 6:
            raise ValueError("Password should contain at least 6 characters")
        if not any(char.isdigit() for char in z):
            raise ValueError("Password should contain at least 1 number")
        if not any(char.isupper() for char in z):
            raise ValueError("Password should contain at least 1 uppercase letter")
        if not any(char.islower() for char in z):
            raise ValueError("Password should contain at least 1 lowercase letter")
        if not any(char in SpecialSym for char in z):
            raise ValueError("Password should contain at least 1 special character")
        break
    except ValueError as e:
        print(e)
k = int(input("Enter the Amount of money you want to deposit: "))
while True:
   try:
        a = input("Enter Your Date of Birth (DD/MM/YYYY): ")
        a = date.datetime.strptime(a, "%d/%m/%Y").date()
        break
    except ValueError:
        print("Please enter Date of birth in proper format: DD/MM/YYYY")
s = input("Enter Your Address: ")
while True:
   try:
        d = input("Enter Your Phone Number: ")
        if len(d) != 10 or not d.isdigit():
            raise ValueError("Please enter a valid 10-digit Number")
        break
    except ValueError as e:
        print(e)
while True:
   try:
        f = input("Enter Your 12-Digit Aadhar Number: ")
        if len(f) != 12 or not f.isdigit():
            raise ValueError("Please enter a valid 12-digit Aadhar Number")
```

```
break
       except ValueError as e:
           print(e)
   q = "INSERT INTO bank (Name, UserName, Password, DateOfBirth, Address, Mobile Number, Aadhar no, Balance) VALUES (%s,
   values = (ut, p, z, a, s, d, f, k)
   mycur.execute(q, values)
   mycon.commit()
   print("\n")
   print("
   print("*******Account Has Been Created Successfully. Kindly Login*********")
   print("
elif ch == 2:
   u = input("Enter Your Username: ")
   p = input("Enter Your Password: ")
   a = "SELECT * FROM bank WHERE UserName=%s AND Password=%s"
   mycur.execute(a, (u, p))
   data = mycur.fetchall()
   if data:
       while True:
           print("\n")
          print("
           print("\n")
           print("Press 1 To Withdraw Money")
           print("Press 2 To Deposit Money")
           print("Press 3 To View Last Five Transactions")
           print("Press 4 To View Your Profile")
           print("Press 5 To Update Account Details")
           print("Press 6 To Delete Your Account Permanently")
           print("Press 7 To Log Out")
           try:
              ch1 = int(input("Enter Your Choice: "))
              if ch1 < 1 or ch1 > 7:
                  raise ValueError("Invalid choice, please select a number between 1 and 7")
           except ValueError as e:
              print(e)
              continue
```

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if ch1 == 1:
   try:
       np = "SELECT Balance FROM bank WHERE UserName=%s"
       mycur.execute(np, (u,))
       bal = mycur.fetchone()[0]
    except Exception:
       print("Oops! Something went wrong.")
   print("\n")
    print("
    print("Your Account Balance is: ", bal)
    print("
    print("\n")
   while True:
       try:
           a1 = int(input("Enter the amount for withdrawal: "))
           if a1 <= bal:</pre>
               credited = 0
               t6 = "UPDATE bank SET Balance = GREATEST(0, Balance - %s) WHERE UserName=%s"
               mycur.execute(t6, (a1, u))
               mycon.commit()
               bp = "INSERT INTO transaction (Credited, Debited, UserName, Date) VALUES (%s, %s, %s, %s)"
               mycur.execute(bp, (credited, a1, u, dates1))
               mycon.commit()
               np9 = "SELECT Balance FROM bank WHERE UserName=%s"
               mycur.execute(np9, (u,))
               bal1 = mycur.fetchall() # or fetchone() depending on your query
               print("\n")
               print("
               print(f"Your UserName {u} is debited with Rs {a1} on {dates1}")
               print(f"towards Net Banking. Available balance is Rs: {bal1} ₹ only")
               print("
           else:
               print("
               print(" ******* OOPS Insufficient Balance Please Try Again! ********")
               print("
           break
       except ValueError:
           print("
           print(" ***00Ps that was an invalid input*** :) ")
```

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```
print("
          continue
elif ch1 == 2: # Deposit Money
   Debited = 0
   while True:
       try:
          a11 = input("Enter the amount to deposit: ")
          if not all.isdigit():
              raise ValueError("Amount must be a number")
          else:
              t6 = "UPDATE bank SET Balance = Balance + %s WHERE UserName=%s"
              mycur.execute(t6, (a11, u))
              mycon.commit()
              mn = "INSERT INTO transaction (Credited, Debited, UserName, Date) VALUES (%s, %s, %s, %s)"
              mycur.execute(mn, (a11, Debited, u, dates1))
              mycon.commit()
              np9 = "SELECT Balance FROM bank WHERE UserName=%s"
              mycur.execute(np9, (u,))
              bal2 = mycur.fetchone()[0]
              print("\n")
              print("
              print(f"Your UserName {u} is credited with Rs {a11} on {dates1}")
              print(f"towards Net Banking. Available balance is Rs: {bal2} ₹ only")
              print("
              break
       except ValueError as e:
          print(e)
elif ch1 == 3:
   prt = "SELECT Credited, Debited, Date FROM transaction WHERE UserName=%s ORDER BY Date DESC LIMIT 5"
   mycur.execute(prt, (u,))
   print("
   print("\n")
   for i in mycur:
       print("
       print(f"Credited: {i[0]}, Debited: {i[1]}, Date: {i[2]}")
       print("
elif ch1 == 4:
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nmm = "SELECT Name, UserName, Password, DateOfBirth, Address, Mobile Number, Aadhar no, Balance FROM bank
   mycur.execute(nmm, (u,))
   print("
   print("
   print("\n")
   print("
                                  Password
                                              DOB
                                                       Address
                                                                                         Balance")
   print("
             Name
                      Username
                                                                   Mob No
                                                                             Aadhar No
   print("
   print("\n")
   for i in mycur:
       print("
       print(i)
       print("
elif ch1 == 5:
   while True:
       print("\n")
       print("
                           Account Settings *******
       print("
       print("
       print("Press 1 To Update Your Name")
       print("Press 2 To Update Your UserName")
       print("Press 3 To Update Your PassWord")
       print("Press 4 To Update Your Phone Number")
       print("Press 5 To Update Address")
       try:
           ch2 = int(input("Enter Your Choice: "))
           if ch2 < 1 or ch2 > 5:
              raise ValueError("Invalid choice, please select a number between 1 and 5")
       except ValueError as e:
           print(e)
           continue
       break
   if ch2 == 1:
       try:
           name = input("Enter Your New Name: ")
           ns = "UPDATE bank SET Name=%s WHERE UserName=%s"
           mycur.execute(ns, (name, u))
           mycon.commit()
           print("
           print(" ****Hurrey !!! Name is Updated Successfully*** :) ")
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```
print("
   except Exception as e:
        print("Oh Something Went Wrong !!!", e)
elif ch2 == 2:
   try:
       mp = input("Enter Your New UserName: ")
       nm = "UPDATE bank SET UserName=%s WHERE Password=%s"
       mycur.execute(nm, (mp, p))
       mycon.commit()
       print("
       print(" ****Hurrey !!! UserName is Updated Successfully*** :) ")
       print("
   except Exception as e:
       print("Oh Something Went Wrong !!!", e)
elif ch2 == 3:
   try:
       newpassword = input("Enter Your New Password: ")
       us = "UPDATE bank SET Password=%s WHERE UserName=%s"
       mycur.execute(us, (newpassword, u))
       mycon.commit()
       print("Hurrey !!! Password is Updated Successfully")
   except Exception as e:
       print("Oh Something Went Wrong !!!", e)
elif ch2 == 4:
   while True:
       try:
           newphone = input("Enter Your New Phone Number: ")
           if len(newphone) != 10 or not newphone.isdigit():
               raise ValueError("Please enter a valid 10-digit Number")
           us = "UPDATE bank SET Mobile Number=%s WHERE UserName=%s"
           mycur.execute(us, (newphone, u))
           mycon.commit()
           print("
           print(" ****Hurrey !!! Mobile Number is Updated Successfully*** :) ")
           print("
           break
       except ValueError as e:
           print(e)
           continue
elif ch2 == 5:
```

```
try:
                newadd = input("Enter Your New Address: ")
                 ns1 = "UPDATE bank SET Address=%s WHERE UserName=%s"
                 mycur.execute(ns1, (newadd, u))
                 mycon.commit()
                 print("
                print(" *** Hurrey !!! Address is Updated Successfully *** :) ")
                 print("
             except Exception as e:
                 print("Oh Something Went Wrong !!!", e)
      elif ch1 == 6:
          try:
             ps = "DELETE FROM bank WHERE UserName=%s"
             mycur.execute(ps, (u,))
             mycon.commit()
             gs = "DELETE FROM transaction WHERE UserName=%s"
             mycur.execute(gs, (u,))
             mycon.commit()
             print("\n")
             print("
             print("
             print("\n")
             break
          except Exception as e:
             print("Oh Something Went Wrong !!!", e)
      elif ch1 == 7:
          print("\n")
          print("***********Thanks For Choosing Colony Bank Of India **************")
          print("
          break
else:
   print("\n")
   print("
   print(" Login Failed Please Try Again
   print("_
   print("\n")
```

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Press 1 to for Sign Up Press 2 to for Sign In Press 3 to quit Enter Your Choice : 1 Enter Your Name Here: dhanu Enter Your User Name: dd Enter Your Password: 1234@Dhanu Enter the Amount of money you want to deposit: 4000 Enter Your Date of Birth (DD/MM/YYYY): 14/01/2005 Enter Your Address: tthindal Enter Your Phone Number: 9345648204 Enter Your 12-Digit Aadhar Number: 123456789012 \*\*\*\*\*\*Account Has Been Created Successfully. Kindly Login\*\*\*\*\*\*\* Press 1 to for Sign Up Press 2 to for Sign In Press 3 to quit Enter Your Choice: 2 Enter Your Username: dd Enter Your Password: 1234@Dhanu \*\*\*\*\*\*\*\* Welcome To Colony Bank Of India: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Press 1 To Withdraw Money Press 2 To Deposit Money Press 3 To View Last Five Transactions Press 4 To View Your Profile Press 5 To Update Account Details

Press 6 To Delete Your Account Permanently Press 7 To Log Out Enter Your Choice: 1 Your Account Balance is: 4000 Enter the amount for withdrawal: 100 Your UserName dd is debited with Rs 100 on 2024-05-28 18:26:52.952852 towards Net Banking. Available balance is Rs: [(3900,)] ₹ only \*\*\*\*\*\*\*\* Welcome To Colony Bank Of India: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Press 1 To Withdraw Money Press 2 To Deposit Money Press 3 To View Last Five Transactions Press 4 To View Your Profile Press 5 To Update Account Details Press 6 To Delete Your Account Permanently Press 7 To Log Out Enter Your Choice: 2 Enter the amount to deposit: 100 Your UserName dd is credited with Rs 100 on 2024-05-28 18:26:52.952852 towards Net Banking. Available balance is Rs: 4000 ₹ only \*\*\*\*\*\*\* Welcome To Colony Bank Of India: \*

```
Press 1 To Withdraw Money
Press 2 To Deposit Money
Press 3 To View Last Five Transactions
Press 4 To View Your Profile
Press 5 To Update Account Details
Press 6 To Delete Your Account Permanently
Press 7 To Log Out
Enter Your Choice: 3
******* The Transaction Details are as Follows **************
Credited: 0, Debited: 100, Date: 2024-05-28
Credited: 100, Debited: 0, Date: 2024-05-28
******* Welcome To Colony Bank Of India: ********************
Press 1 To Withdraw Money
Press 2 To Deposit Money
Press 3 To View Last Five Transactions
Press 4 To View Your Profile
Press 5 To Update Account Details
Press 6 To Delete Your Account Permanently
Press 7 To Log Out
Enter Your Choice: 4
Name
           Username
                       Password
                                   DOB
                                           Address
                                                      Mob No
                                                                Aadhar No
                                                                            Balance
```

```
('dhanu', 'dd', '1234@Dhanu', datetime.date(2005, 1, 14), 'tthindal', '9345648204', '123456789012', 4000)
******** Welcome To Colony Bank Of India: *******************
Press 1 To Withdraw Money
Press 2 To Deposit Money
Press 3 To View Last Five Transactions
Press 4 To View Your Profile
Press 5 To Update Account Details
Press 6 To Delete Your Account Permanently
Press 7 To Log Out
Enter Your Choice: 5
              Account Settings *******
    *****
Press 1 To Update Your Name
Press 2 To Update Your UserName
Press 3 To Update Your PassWord
Press 4 To Update Your Phone Number
Press 5 To Update Address
Enter Your Choice: 5
Enter Your New Address: thindal
  *** Hurrey !!! Address is Updated Successfully *** :)
****** Welcome To Colony Bank Of India: *********************
```

Press 1 To Withdraw Money

Press 2 To Deposit Money

Press 3 To View Last Five Transactions

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	Press 4 To View Your Profile
	Press 5 To Update Account Details
	Press 6 To Delete Your Account Permanently
	Press 7 To Log Out
	Enter Your Choice: 6
	******* ACCOUNT HAS BEEN DELETED SUCCESSFULLY ***********
	******************** Welcome To Colony Bank Of India ***********
	**************************************
	Press 1 to for Sign Up
	Press 2 to for Sign In
	Press 3 to quit
	Enter Your Choice : 3
	***Run me again***
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