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Enrollment No:**0801CS211036**

Report on mini-project (ATM)

Characterstics of MiniProject

Starting Date/Time : 6 Nov ,2022 StartTime:10 AM Morning
End Data/Time : 15 Nov ,2022 EndTime:11 PM
Total Time Required :15 hours
Total Line of Code : 600+ lines
Number of Functions : 13

Objectives of Project :

1> This project is intended to have a better functionality in **ATM** system , as this project also shows the graph for the withdraw and deposit per month and also display them separately

2> This project/software have audio facility in it , it also tells the instruction to the customer , like " Enter name ..." and also tells that what wrong they have entered therefore increasing the communication gap between the machines and human

Function Descriptions :

1> $\_\_main\_\_$:

This is the driver function of the code/program , it simply calls the menu() function.

2> menu():

This function ask , whether you want to Login/SignUp/Exit the system.

3> aadharCheck.cpp:

This function or file checks whether the aadhar number entered is correct or not. 4> passCheck():

This function checks whether the password entered by the user secured or not , or it is easy to crack.

5> checkEmail.cpp:

This function or file checks whether the mail entered is correct or not

6> ver():

This function handles the vercode.txt handling , which is used as a security OTP for the person that is trying to withdraw/deposit in the account.

7> login():

This function allows the user to login in into the account , by checking whether the person with the given username and password exist or not.

8> afterlogin():

This function help the user to do the functionalities like deposit , withdraw , see transaction history , see account details and graphs.

9> choiceMainMenu():

This function helps in making choice in afterlogin function , it actually identify whether the choice entered is valid or not in afterlogin choice system.

10> graphChoiceChecker():

This function is used to perform choice function in graphmenu function.

11> graphMenu():

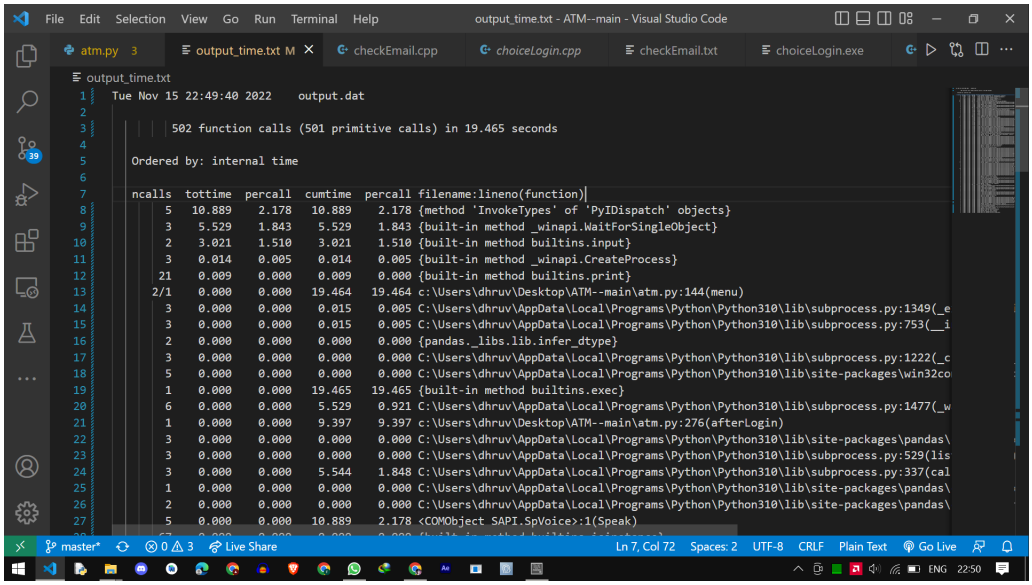
This functions is responsible for showing the graph to the user , that makes easier for the user to understand about his transaction history.

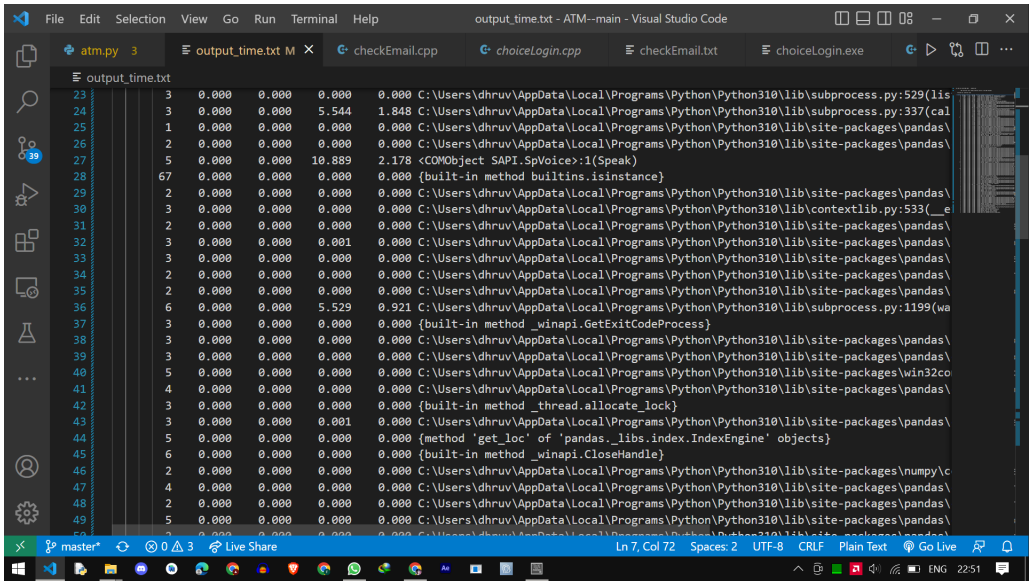
12> choiceAfterLogin.cpp :

This is the choice selector file for afterLogin function in python 13> choiceLogin.cpp:

This is the choice selector for login menu

PROFILING




File Edit Selection View Go Run Terminal Help
output_time.txt - ATM--main - Visual Studio Code
atm.py 3
output_time.txt M
checkEmail.cpp
choiceLogin.cpp
checkEmail.txt
choiceLogin.exe
output_time.txt
master*
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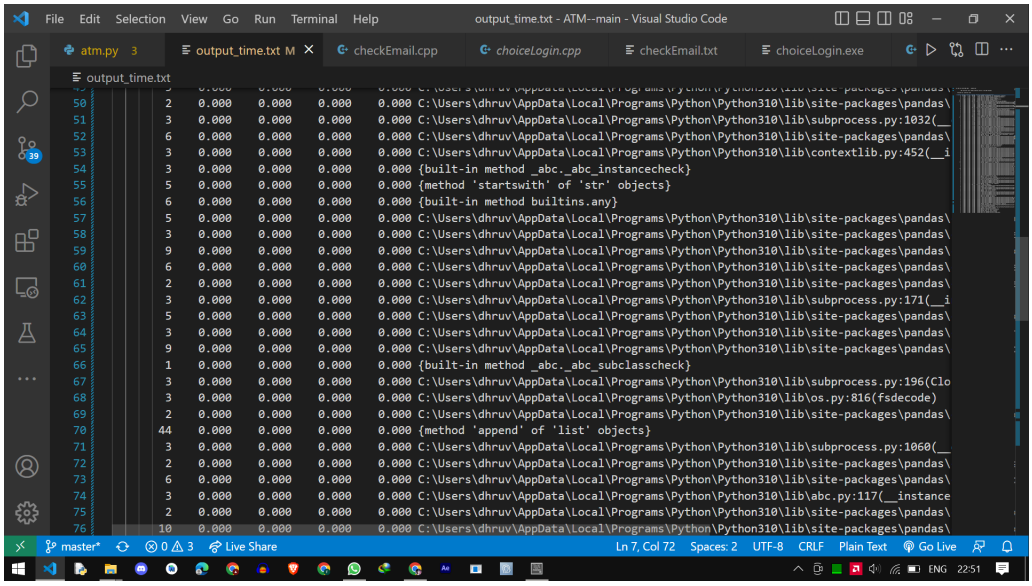
Live Share
Ln 7, Col 72
Spaces: 2
UTF-8
CRLF
Plain Text
Go Live
ENG
22:51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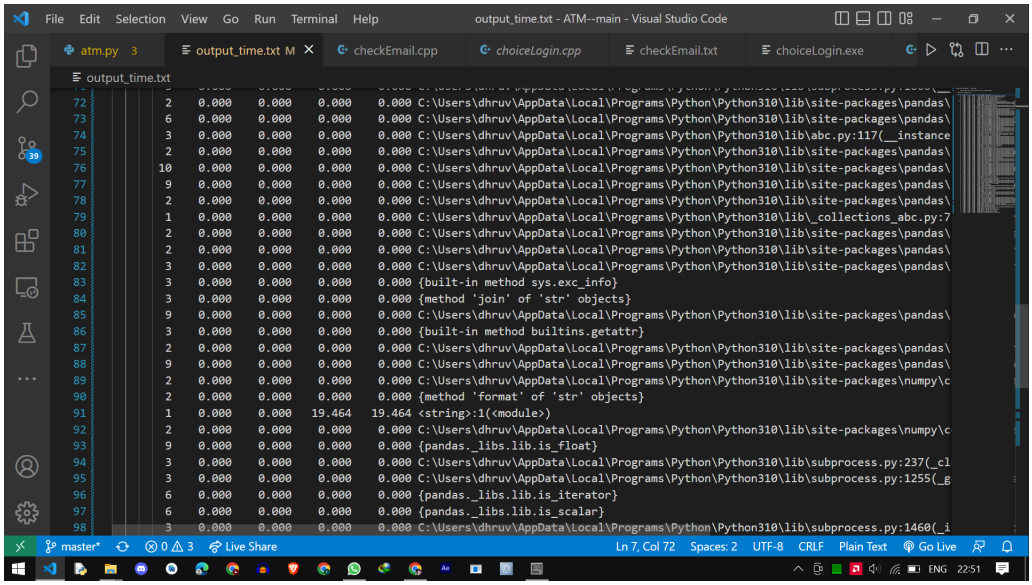
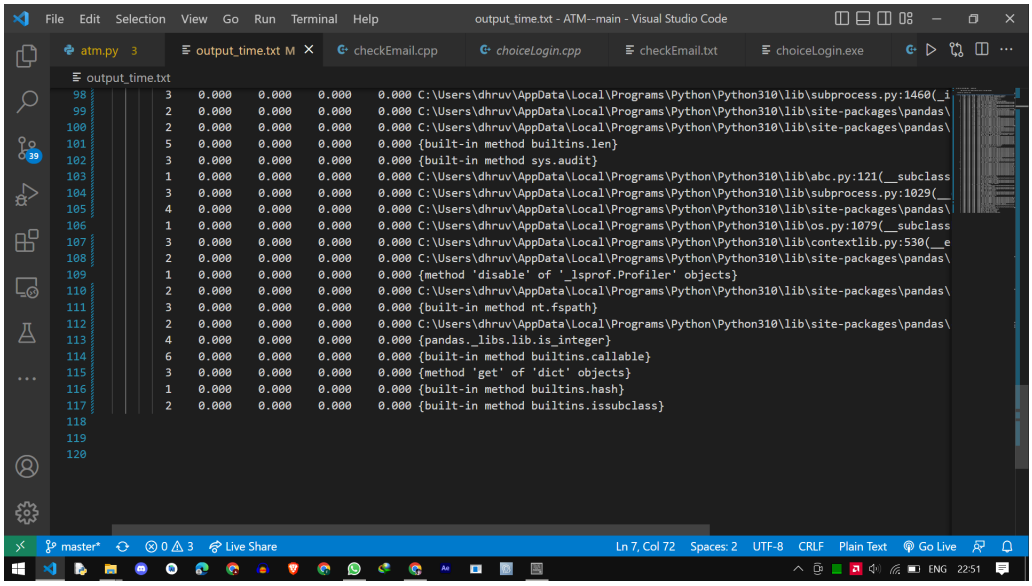
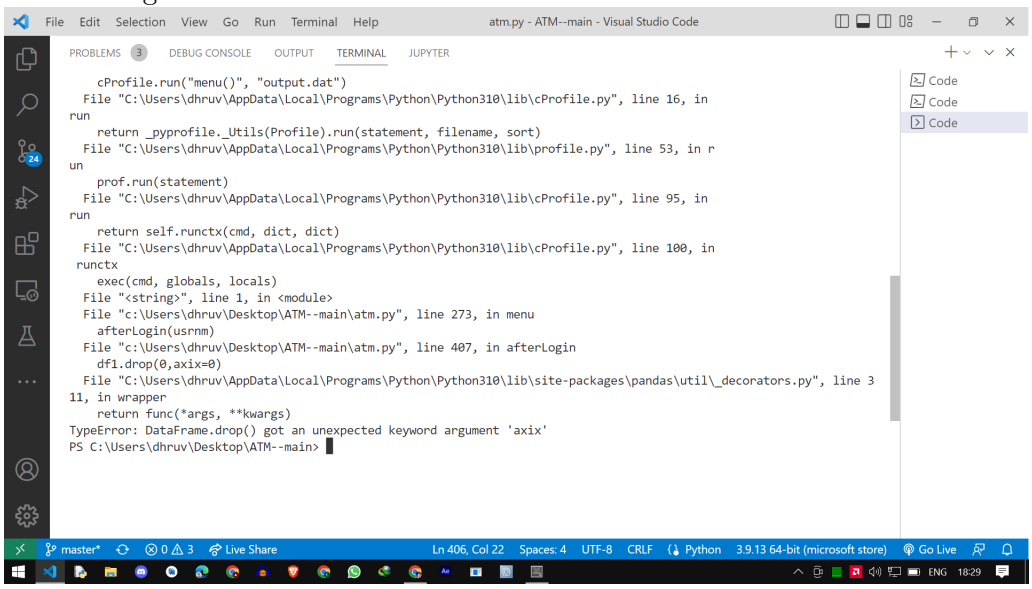
Live Share
Ln 7, Col 72
Spaces: 2
UTF-8
CRLF
Plain Text
Go Live
ENG
22:51



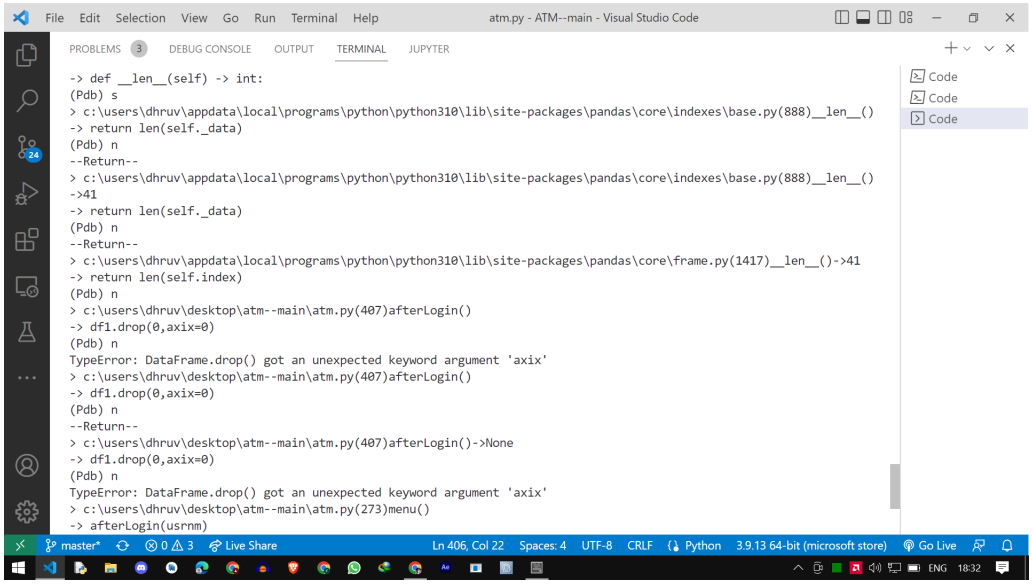


DEBUGGING USED

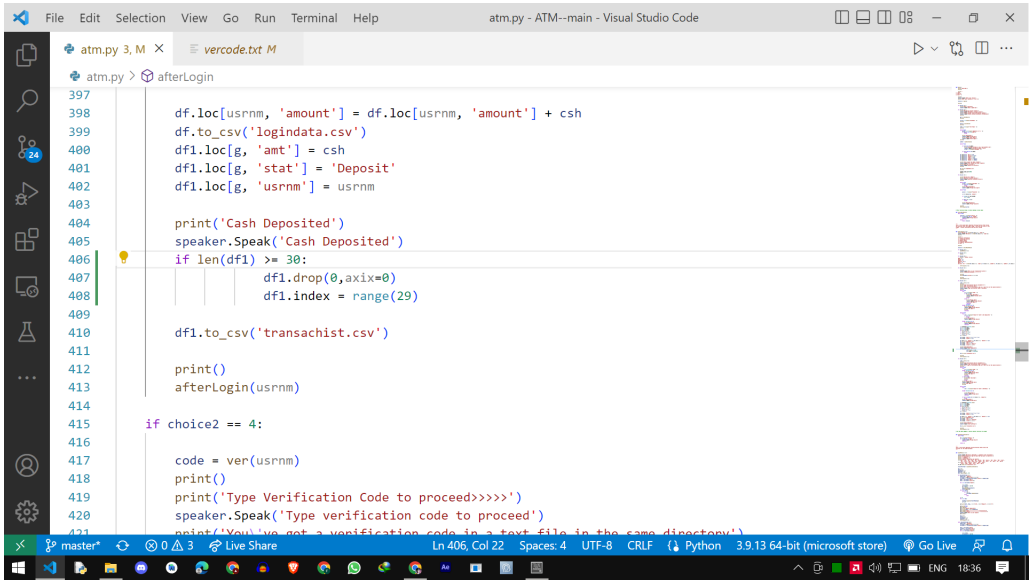
First Debug – Error–



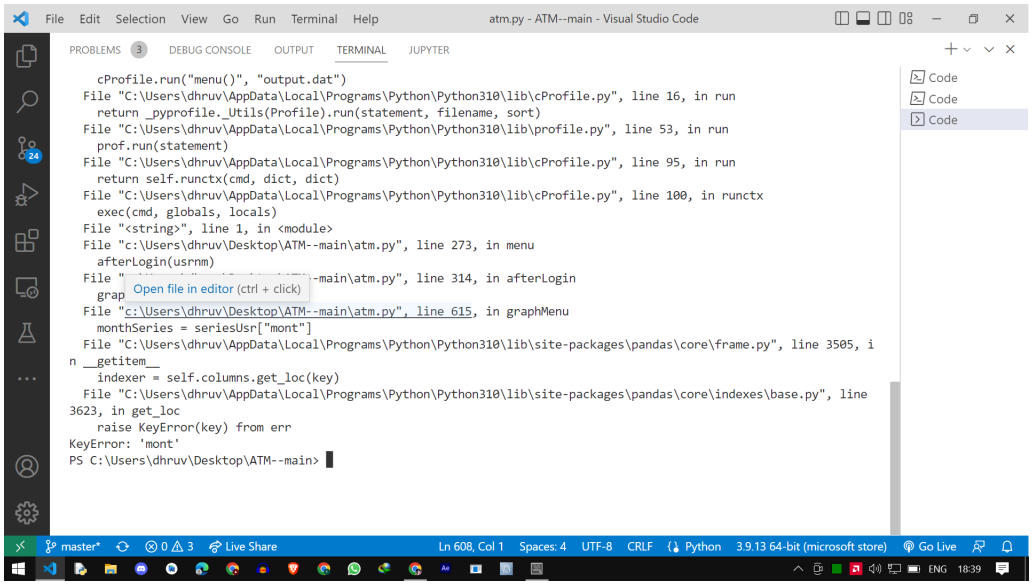
–Caught the error using debugger–(pdb in python)



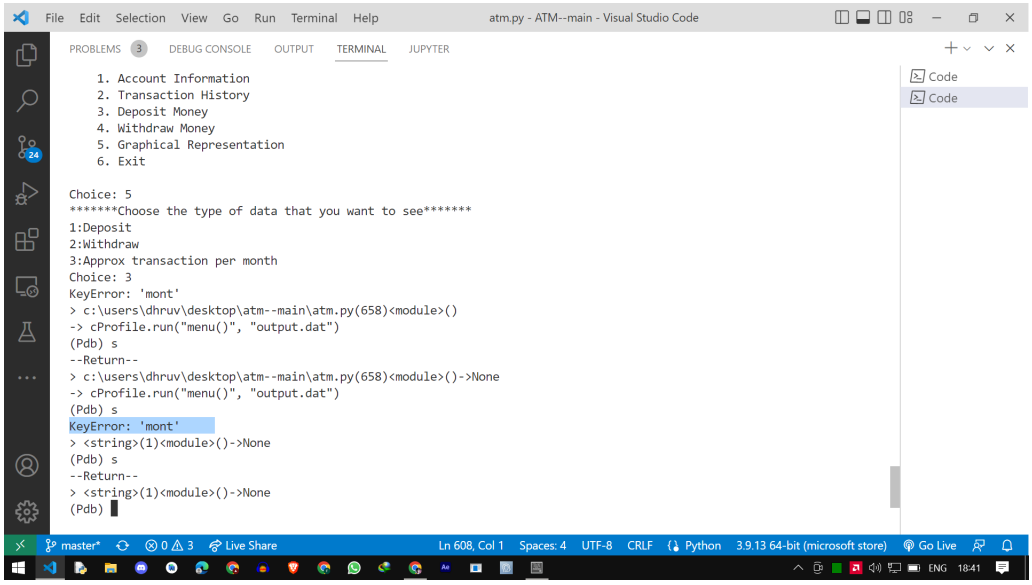
–Corrected the code–



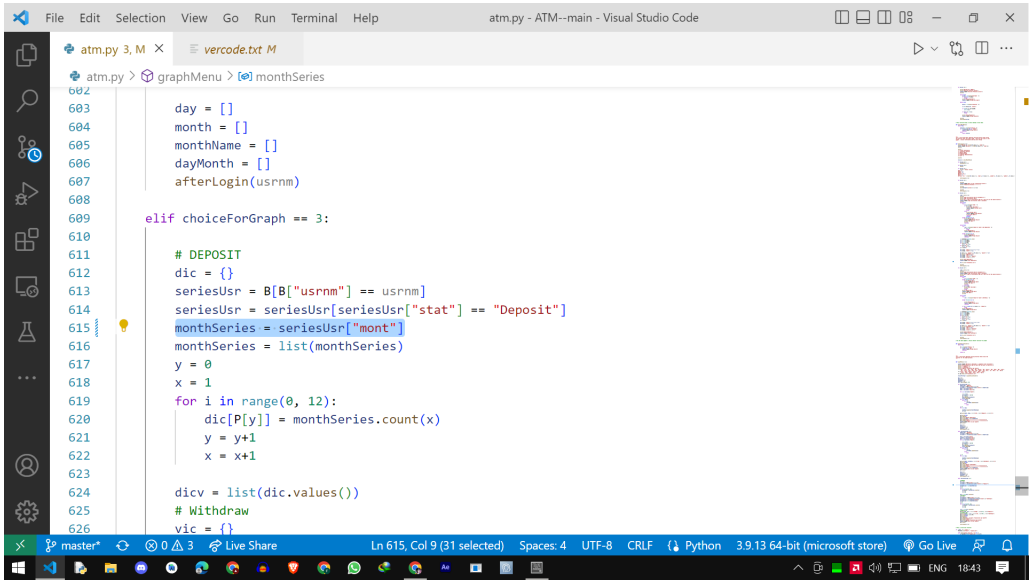
Second Debug –Error–



–Caught the error using debugger– (pdb in python)



–Corrected the code–




```
"""
This program/software is a basic ATM(Automated Teller Machine) Software th
can do things like :

1> Login , Signup
2> Deposit , WithDraw , See Graphs(of deposits and withdraw)
3> Account Details , Transaction history

Special Features of this ATM Project :

1> It consist of Audio instructions in it
2> It can also show graph of deposits , withdraw
3> Have security system like OTP , that occurs in the same text file
that is present in this directory

"""
```

```
# Importing necessary modules

import pandas as pd
from win32com.client import *
import matplotlib.pyplot as plt
import numpy as np
import pygame
import random
import datetime
import re
import cProfile
import pstats
from pstats import SortKey

speaker = Dispatch('SAPI.SpVoice')
df = pd.read_csv('logindata.csv', index_col=0)
df1 = pd.read_csv('transachist.csv', index_col=0)


print('WELCOME TO TATA ATMs')
speaker.Speak('Welcome to tata Automated Teller Machines')


"""
This function is handling the login process of the whole software
1> It takes input of all the required things and even
checks for correct ( password , email and many more )

"""


def login():
    while True:
        try:
            choice1 = int(input('Choice: '))
        except Exception as e:
            print('Wrong Data')
            speaker.Speak('Wrong Choice')
            continue
```

```
        if choice1 > 0 and choice1 < 4:
            break
        print('Wrong Choice')
        speaker.Speak('Wrong Choice')
        print('Enter again')
        speaker.Speak('Enter Again')
        print()
    return choice1


""" This function checks whether the mail is correct or not
, it checks all the possible mistakes that can be in the gmail
"""


def checkEmail():

    gml = str(input('Gmail ID: '))
    regex = r'\b[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Z|a-z]{2,}\b'

    if (re.fullmatch(regex, gml)):

        return gml

    else:
        print("Invalid Email")
        checkEmail()


"""
This function checks whether the entered password is go to go or
not , as the password should be secure , should not be to easy
"""


def passCheck():
    l, u, p, d = 0, 0, 0, 0
    s = str(input('Password: '))
    if (len(s) >= 8):
        for i in s:
```

```
            # counting lowercase alphabets
            if (i.islower()):
                l += 1

            # counting uppercase alphabets
            if (i.isupper()):
                u += 1

            # counting digits
            if (i.isdigit()):
                d += 1

            # counting the mentioned special characters
            if (i == '@' or i == '$' or i == '_'):
                p += 1
    if (l >= 1 and u >= 1 and p >= 1 and d >= 1 and l+p+u+d == len(s)):
        return s
    else:
        print("invalid password")
        passCheck()


# As the name suggest , it checks the correctness of aadhar number


def aadharCheck():
    while True:
        try:
            aadhar = int(input('Aadhar No.: '))
        except Exception as e:
            print('Wrong Data')
            speaker.Speak('Wrong Data')
            print('Please Enter Again')
            speaker.Speak('Enter again')
            continue
        if len(str(aadhar)) == 12 and aadhar not in df['aadhar']:
            break

        print('Wrong Data')
```

```
            speaker.Speak('Wrong Data')
            print('Please Enter Again')
            speaker.Speak('Enter again')
        return aadhar

# This function help in communicating between CSV file and
# Frontend


def ver(usrnm):
    code = random.randint(1000, 9999)
    f = open('vercode.txt', mode='w')
    f.write(str(code))
    f.close()
    return code


"""
This is the main driving method of the software , that initiate
program havinf Login , Sign up and Exit option
"""


def menu():
    print('TATA ATMs')
    print()

    print('''
1. Login
2. Sign up
3. Exit''')

    print()
    speaker.Speak('Enter your choice')
    print('Enter your choice(1 or 2 or 3)')

    choice1 = login()

    print()
```

```
if choice1 == 3:
    print('Have a Good Day')
    speaker.Speak('Have a good day')

if choice1 == 2:
    print('Welcome to Account Creator')
    speaker.Speak('Welcome to account creator')
    print('Please provide these informations kindly')
    speaker.Speak('Kindly provide necessary informations')
    print()

    gml = checkEmail()
    print()

    usrnm = str(input('UserName: '))
    print()

    passw = passCheck()
    print()

    name = str(input('Full Name: '))
    print()

    while True:
        gender = str(input('Gender(m or f): '))
        if gender in list('mMfF'):
            break

        print('Wrong data')
        speaker.Speak('Wrong data')
        print('Please enter again')
        speaker.Speak('Enter again')
    print()

    aadhar = aadharCheck()

    while True:

        if usrnm in df.index:
            print('Username already in use, type another one')
```

```
            speaker.Speak('Username already in use')
            usrnm = str(input('UserName: '))

        if usrnm not in df.index:
            break

    df.loc[usrnm, 'gml'] = gml
    df.loc[usrnm, 'passw'] = passw
    df.loc[usrnm, 'amount'] = 0
    df.loc[usrnm, 'name'] = name
    df.loc[usrnm, 'gender'] = gender
    df.loc[usrnm, 'aadhar'] = aadhar

    print('Your account has been created')
    speaker.Speak('Your account has been created')
    print('Enjoy our services')
    speaker.Speak('Enjoy our Services')
    print()

    df.to_csv('logindata.csv')
    print()

    pygame.time.wait(2000)
    menu()

if choice1 == 1:

    print('Welcome Sir\\Madam')
    print('Security Protocols Active')
    speaker.Speak('Security Protocols active')
    print()

    while True:
        usrnm = str(input('Username: '))
        if usrnm in df.index:
            break
        print('Wrong Username')
        speaker.Speak('Wrong data input')

    while True:
```

```
            passw = str(input('Password: '))

            a = df.loc[usrnm, 'passw']

            if type(a) == np.float64:
                a = int(a)

            if passw == str(a):
                break

            print('Wrong Password')
            speaker.Speak('Wrong Password')

        print()
        afterLogin(usrnm)


# This function helps in choice making in main menu

def choiceMainMenu():
    while True:

        choice2 = int(input('Choice: '))
        if str(choice2) not in '123456':
            speaker.Speak('Wrong Choice')
            continue
        else:
            return choice2


"""
This is the second most important driving function that drives
the function after the login stage , here you can access to the
Graphs , Account Information and many more things
"""


def afterLogin(usrnm):
    print('Welcome {}'.format(df.loc[usrnm, 'name']))
```

```
speaker.Speak('Welcome {}'.format(df.loc[usrnm, 'name']))
print()

print('''
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit''')

print()

choice2 = choiceMainMenu()

if choice2 == 5:
    graphMenu(usrnm)

if choice2 == 6:
    menu()

if choice2 == 1:
    print('''Status: Active
Name: {}
Gender: {}
Aadhar: {}
Balance: Rs.{}
Gmail: {}
At Risk : No'''.format(df.loc[usrnm, 'name'], df.loc[usrnm, 'gender'],

    afterLogin(usrnm)

if choice2 == 2:

    print()
    speaker.Speak('Here is your transaction history')
    print('Transaction History:----------')

    print()
    print(df1[df1['usrnm'] == usrnm])
```

```
        print()
        afterLogin(usrnm)

    if choice2 == 3:

        code = ver(usrnm)
        print()
        print('Type Verification Code to proceed>>>>>')
        print('Type verification code')
        print('You\'ve got a verification code in a text file in the same
        speaker.Speak('Type verification code to proceed')
        print()
        while True:
            try:
                cd = int(input('Code: '))
                if cd == code:
                    print('User Verified')
                    speaker.Speak('Welcome user')
                    print()
                    break
                else:
                    print('Wrong code')
                    speaker.Speak('Wrong Choice')
                    print('Type again')
                    continue
                    print()
            except Exception as e:
                print('Wrong code')
                speaker.Speak('Wrong Choice')
                print('Type again')
                print()
                continue

        while True:
            try:
                csh = int(input('Amount of Cash to be deposited: '))
                if csh > 0:
                    break
                print('Wrong Data')
```

```
                speaker.Speak('Wrong Choice')

            except Exception as e:
                print('Wrong Data')
                speaker.Speak('Wrong Choice')
                continue

        x = datetime.datetime.now()
        y_x = str(x.year)
        m_x = str(x.month)
        d_x = str(x.day)
        if len(m_x) == 1:
            m_x = '0' + m_x
        if len(d_x) == 1:
            d_x = '0' + d_x
        g = len(df1)

        df1.loc[g, 'date'] = y_x + m_x + d_x
        df1.loc[g, 'month'] = m_x

        df.loc[usrnm, 'amount'] = df.loc[usrnm, 'amount'] + csh
        df.to_csv('logindata.csv')
        df1.loc[g, 'amt'] = csh
        df1.loc[g, 'stat'] = 'Deposit'
        df1.loc[g, 'usrnm'] = usrnm

        print('Cash Deposited')
        speaker.Speak('Cash Deposited')

        df1.to_csv('transachist.csv')

        print()
        afterLogin(usrnm)

    if choice2 == 4:

        code = ver(usrnm)
        print()
        print('Type Verification Code to proceed>>>>>')
        speaker.Speak('Type verification code to proceed')
```

```
print('You\'ve got a verification code in a text file in the same
print()
while True:
    try:
        cd = int(input('Code: '))
    except Exception as e:
        print('Wrong code')
        speaker.Speak('Wrong Code')
        print('Type again')
        print()
        continue
    if cd == code:
        print('User Verified')
        print()
        break
    print('Wrong code')
    speaker.Speak('Wrong Code')
    print('Type again')
    print()

while True:
    try:
        csh = int(input('Amount of Cash to Withdraw: '))

    except Exception as e:

        print('Wrong Data')
        speaker.Speak('Wrong data')
        continue

    if csh > 0 and csh < df.loc[usrnm, 'amount']:
        break
    print('Wrong Data')
    speaker.Speak('Wrong data')

x = datetime.datetime.now()
y_x = str(x.year)
m_x = str(x.month)
d_x = str(x.day)
if len(m_x) == 1:
```

```
            m_x = '0' + m_x
        if len(d_x) == 1:
            d_x = '0' + d_x
        g = len(df1)

        df1.loc[g, 'date'] = y_x + m_x + d_x
        df1.loc[g, 'month'] = m_x

        df.loc[usrnm, 'amount'] = df.loc[usrnm, 'amount'] + csh
        df.to_csv('logindata.csv')
        df1.loc[g, 'amt'] = csh
        df1.loc[g, 'stat'] = 'Withdraw'
        df1.loc[g, 'usrnm'] = usrnm

        print('Cash Withdrawn')
        speaker.Speak('Cash withdrawn')

        df1.to_csv('transachist.csv')

        print()
        afterLogin(usrnm)

# As the name suggest a choice checker function for graphs


def graphChoiceChecker():
    while True:

        A = int(input('Choice: '))
        if str(A) not in "123":
            speaker.Speak("Wrong Choice")
            continue

        return A


"""
This is the third important driving function that drives the
function for the graph purposes
"""
```

```
def graphMenu(usrnm):

    speaker.Speak('Welcome to advanced a i graphical stat calculator')
    print("*******Choose the type of data that you want to see*******")
    print("""1: Deposit""")
    print("""2: Withdraw""")
    print("3:Approx transaction per month")
    L = {"01": "Jan", "02": "Feb", "03": "March", "04": "April", "05": "Ma
         "07": "July", "08": "Aug", "09": "Sept", "10": "Oct", '11': "Nov"
    P = ["Jan", "Feb", "March", "April", "May", "June",
         "July", "Aug", "Sept", "Oct", "Nov", "Dec"]
    B = pd.read_csv("transachist.csv")

    choiceForGraph = graphChoiceChecker()

    day = []
    month = []
    monthName = []
    dayMonth = []
    npp = np.arange(1, 13)

    if choiceForGraph == 1:
        depString = "Deposit"
        seriesUsr = B[B["usrnm"] == usrnm]
        seriesUsr = seriesUsr[seriesUsr["stat"] == depString]
        Depo = seriesUsr["amt"]
        Date = seriesUsr["serno"]+1

        for i in seriesUsr["date"]:

            i = str(i)
            seriesUser3 = i[6:8]
            E = i[4:6]
            day.append(seriesUser3)
            month.append(E)
        for i in month:
            for z in L:
                if i == z:
```

```
                monthName.append(L[z])
            else:
                pass

        q = 0
        for i in day:

            dayMonth.append(i+monthName[q])
            q = q+1

        plt.plot(Date, Depo, color="red", label="Deposit", marker="o")

        plt.grid(True)
        plt.legend()
        plt.title("Amount deposited")
        plt.xticks(Date, labels=dayMonth)
        plt.xlabel("Date:----------->>>>>>>>>>>>")
        plt.ylabel("Amount:----------->>>>>>>>>>>>")
        speaker.Speak('Here is your graph')
        plt.show()

        day = []
        month = []
        monthName = []
        dayMonth = []
        afterLogin(usrnm)

    elif choiceForGraph == 2:
        depString = "Withdraw"
        seriesUsr = B[B["usrnm"] == usrnm]
        seriesUsr = seriesUsr[seriesUsr["stat"] == depString]

        Date = seriesUsr["date"]
        withdraw = seriesUsr["amt"]
        Date = seriesUsr["serno"]+1
        for i in seriesUsr["date"]:

            i = str(i)
            seriesUser3 = i[6:8]
            E = i[4:6]
```

```
            day.append(seriesUser3)
            month.append(E)
        for i in month:
            for z in L:
                if i == z:
                    monthName.append(L[z])
                else:
                    pass

        q = 0
        for i in day:

            dayMonth.append(i+monthName[q])
            q = q+1

        plt.plot(Date, withdraw, color="red", label="Withdraw", marker="o")
        plt.grid(True)
        plt.legend()
        plt.title("Amount withdrawed")
        plt.xlabel("Date:---------->>>>>>>>>>>>")
        plt.ylabel("Amount:---------->>>>>>>>>>>>")
        plt.xticks(Date, labels=dayMonth)
        speaker.Speak('Here is your graph')
        plt.show()

        day = []
        month = []
        monthName = []
        dayMonth = []
        afterLogin(usrnm)

    elif choiceForGraph == 3:

        # DEPOSIT
        dic = {}
        seriesUsr = B[B["usrnm"] == usrnm]
        seriesUsr = seriesUsr[seriesUsr["stat"] == "Deposit"]
        monthSeries = seriesUsr["month"]
        monthSeries = list(monthSeries)
        y = 0
```

```
        x = 1
        for i in range(0, 12):
            dic[P[y]] = monthSeries.count(x)
            y = y+1
            x = x+1

        dicv = list(dic.values())
        # Withdraw
        vic = {}
        seriesUser3 = B[B["usrnm"] == usrnm]
        seriesUser3 = seriesUser3[seriesUser3["stat"] == "Withdraw"]
        monthSeries3 = seriesUser3["month"]
        monthSeries3 = list(monthSeries3)
        y = 0
        x = 1
        for i in range(0, 12):
            vic[P[y]] = monthSeries3.count(x)
            y = y+1
            x = x+1

        vicv = list(vic.values())
        # Deposit bar
        plt.bar(npp, dicv, color='orange', width=0.2, label="Deposit")
        # withdraw bar
        plt.bar(npp+0.2, vicv, color='red', width=0.2, label="Withdraw")
        plt.xticks(npp, labels=P)
        plt.grid(True)
        plt.legend()
        plt.ylabel("No. of approx transactions per month")
        plt.xlabel("Month")
        plt.title('Approx transaction per month')
        speaker.Speak('Here is your graph')
        plt.show()

        afterLogin(usrnm)


# This is the driver function

if __name__ == "__main__":
```

```
    cProfile.run("menu()", "output.dat")

    with open("output_time.txt", "w") as f:
        p = pstats.Stats("output.dat", stream=f)
        p.sort_stats("time").print_stats()
```

C++ code used in this project

This is the choiceLogin.cpp file

```
#include <iostream>
using namespace std;

int afterLogin()
{
    int choice;
    cin >> choice;
    if (choice > 0 && choice < 4)
    {
        return choice;
    }
    printf("invalid choice\n");
    afterLogin();
    return 0;
}

int main()
{

    return afterLogin();
}
```

This is the aadharCheck.cpp file

```
#include <iostream>
#include <bits/stdc++.h>
using namespace std;

int main()
```

```
{

    long long int aadharNumber;
    while (true)
    {

        cout << "Enter Your aadhar Number ";
        cin >> aadharNumber;

        if (to_string(aadharNumber).length() == 12)
        {

            fstream file;

            // opening file "Gfg.txt"
            // in out(write) mode
            // ios::out Open for output operations.
            file.open("checkAadhar.txt", ios::out);
            file << to_string(aadharNumber);
            file.close();
            break;
        }
    }

    return 0;
}
```

This is the checkEmail.cpp file

```
#include <iostream>
#include <regex>
#include <bits/stdc++.h>

using namespace std;

int main()
{
    string str;
    const regex pattern("(\\w+)(\\.|_)?(\\w*)@(\\w+)(\\.(\\w+))+");
```

```
    while (true)
    {
        cout << "Enter your Email-Id:" << endl;
        cin >> str;

        if (regex_match(str, pattern))
        {

            fstream file;

            file.open("checkEmail.txt", ios::out);
            file << str;
            file.close();

            break;
        }
    }

    return 0;
}
```

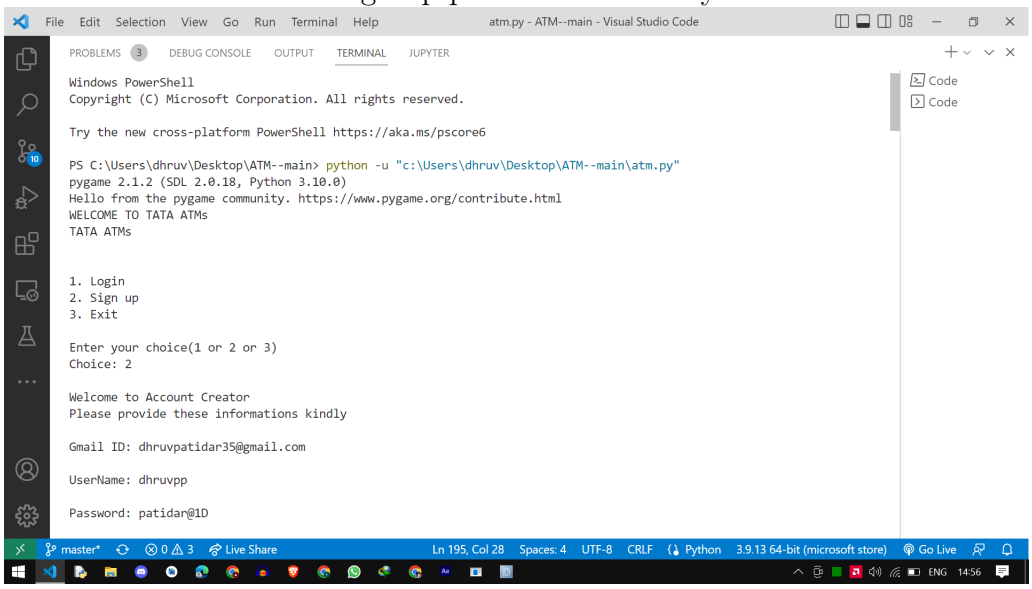
This is the choiceAfterLogin file

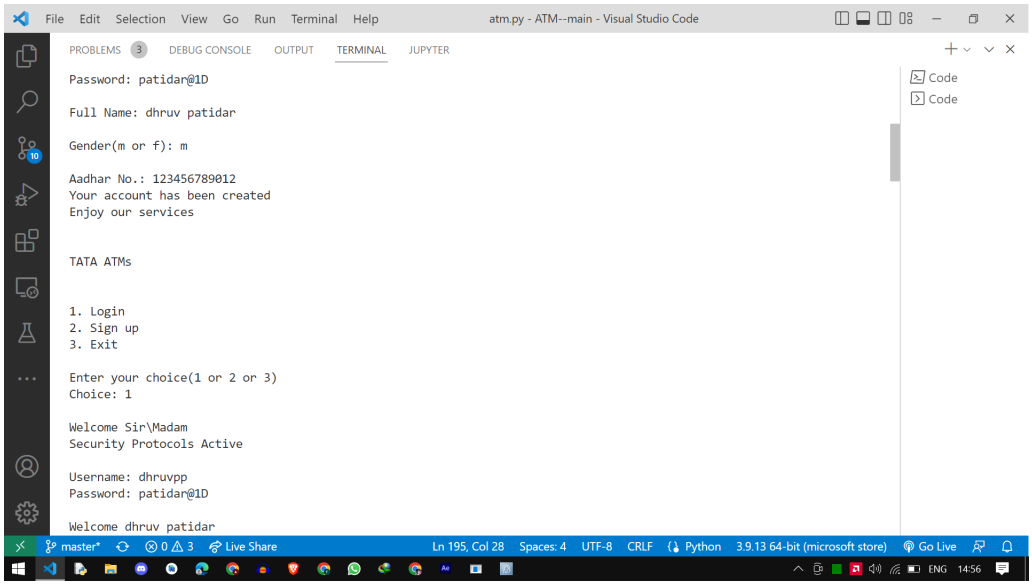
```
#include <iostream>
using namespace std;

int afterLogin()
{

    int choice;
    cout << "Enter the Choice :";
    cin >> choice;
    if (choice > 0 && choice < 7)
    {
        return choice;
    }
    cout << "invalid choice\n";

    afterLogin();
```

```
    return 0;
}

int main()
{

    return afterLogin();
}
```

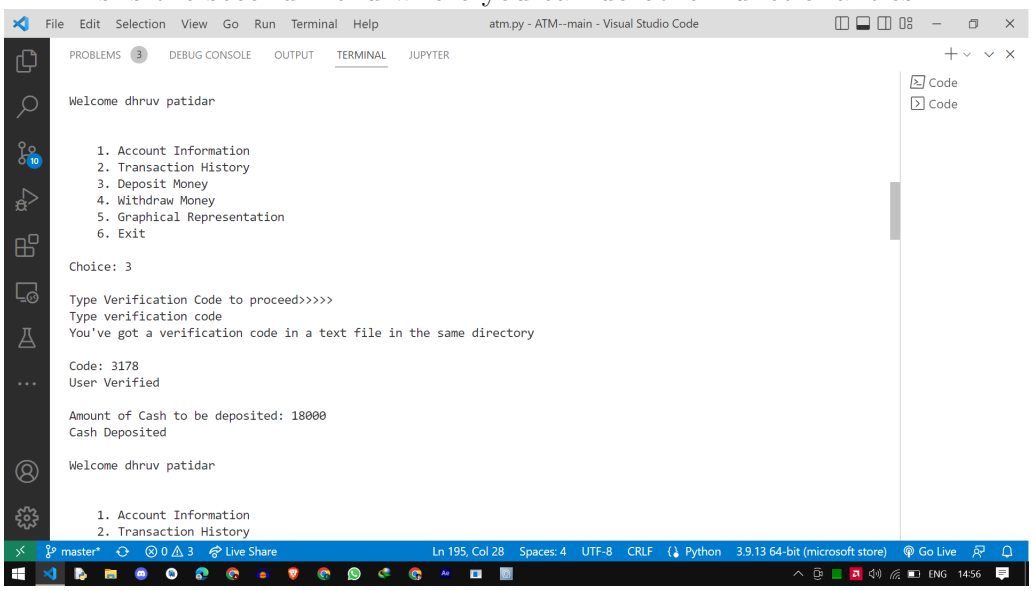
OUTPUT OF THE CODE

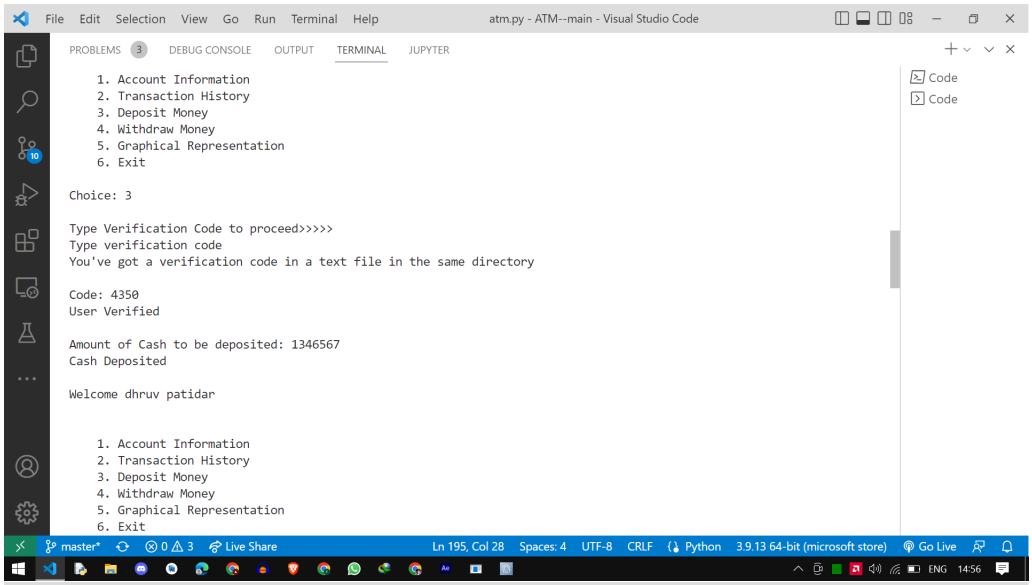
This is the sign up part of the ATM system

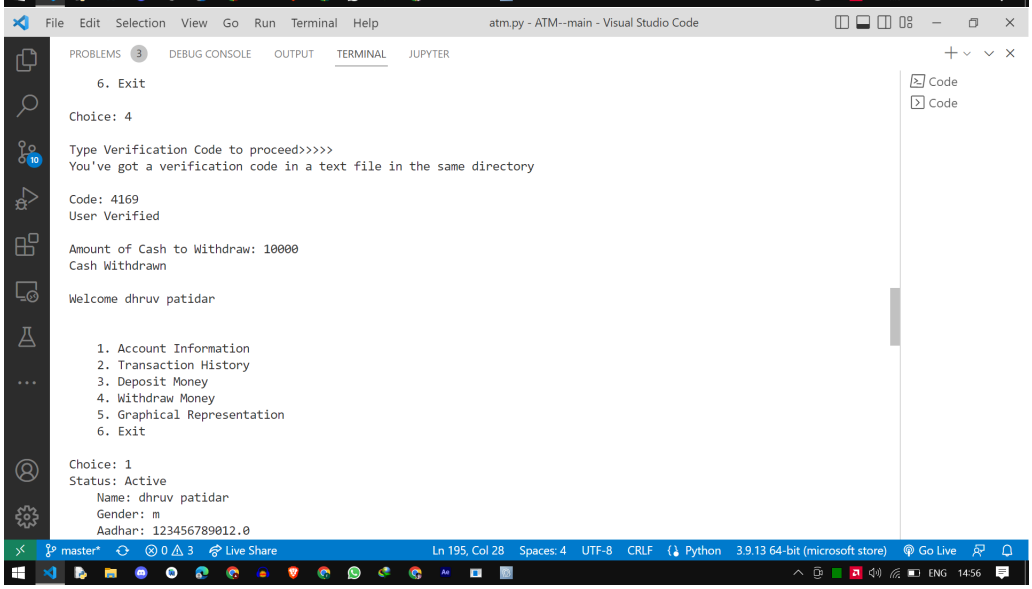


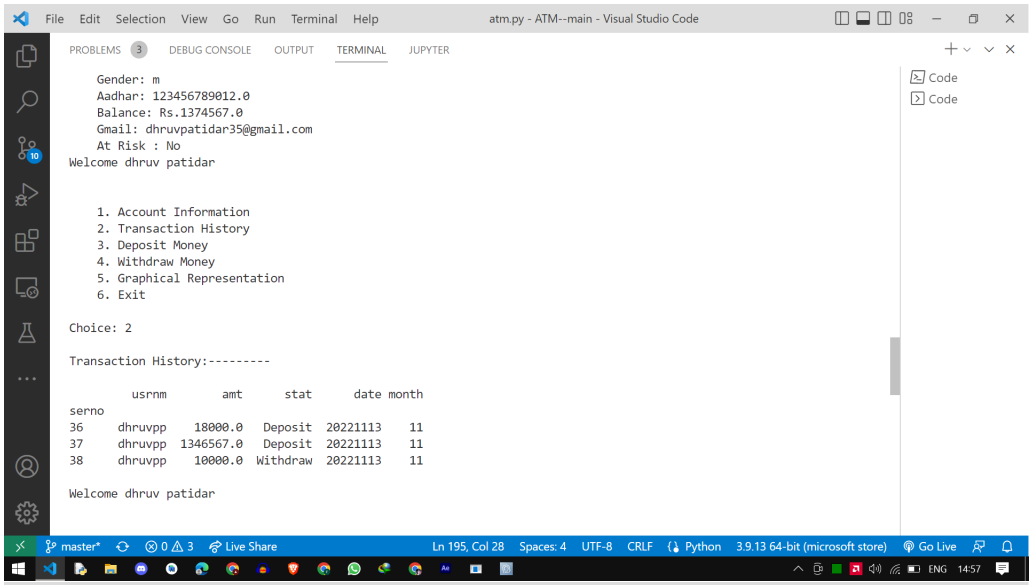


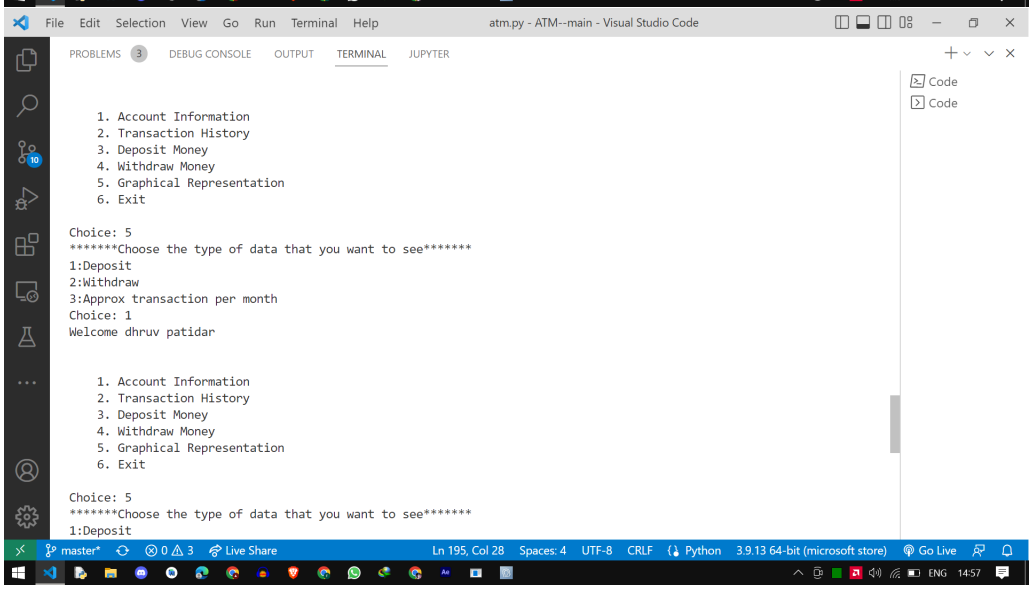
This is the second menu where you can do other functionalities

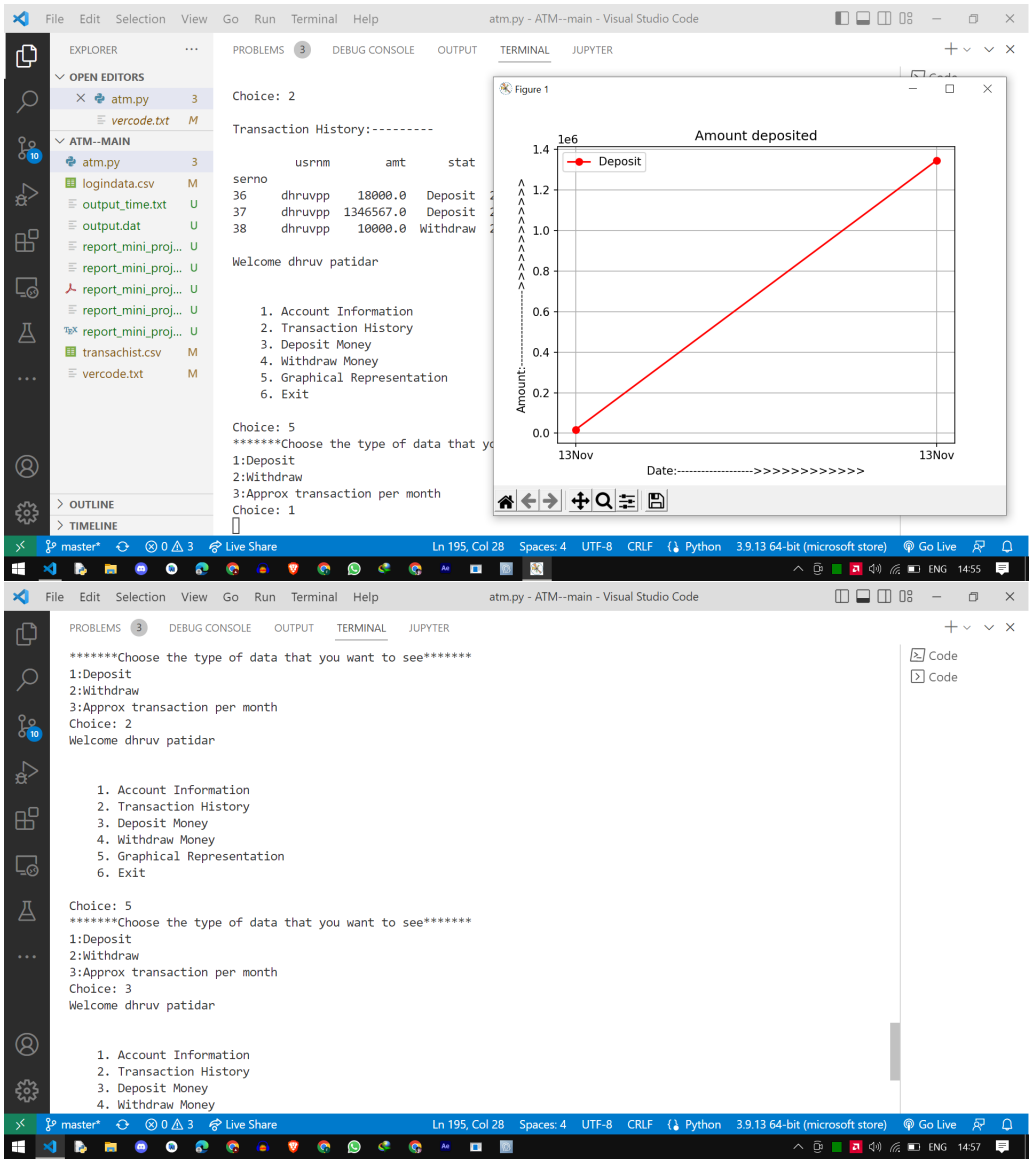



File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 3
Type Verification Code to proceed>>>>>
Type verification code
You've got a verification code in a text file in the same directory
Code: 4350
User Verified
Amount of Cash to be deposited: 1346567
Cash Deposited
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Code
Code
master* 0 3 Live Share
Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:56


File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
6. Exit
Choice: 4
Type Verification Code to proceed>>>>>
You've got a verification code in a text file in the same directory
Code: 4169
User Verified
Amount of Cash to Withdraw: 10000
Cash Withdrawn
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 1
Status: Active
Name: dhruv patidar
Gender: m
Aadhar: 123456789012.0
Code
Code
master* 0 3 Live Share
Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:56


File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
Gender: m
Aadhar: 123456789012.0
Balance: Rs.1374567.0
Gmail: dhruvpatidar35@gmail.com
At Risk : No
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 2
Transaction History:---------
usrnm amt stat date month
serno
36 dhruvpp 18000.0 Deposit 20221113 11
37 dhruvpp 1346567.0 Deposit 20221113 11
38 dhruvpp 10000.0 Withdraw 20221113 11
Welcome dhruv patidar
Code
Code
master* 0 3 Live Share Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:57


File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
*******Choose the type of data that you want to see*******
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 1
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
*******Choose the type of data that you want to see*******
1:Deposit
Code
Code
master* 0 3 Live Share Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:57


File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
EXPLORER
OPEN EDITORS
atm.py 3
vercode.txt M
ATM--MAIN
atm.py 3
logindata.csv M
output_time.txt U
output.dat U
report_mini_proj... U
report_mini_proj... U
report_mini_proj... U
report_mini_proj... U
report_mini_proj... U
transachist.csv M
vercode.txt M
OUTLINE
TIMELINE
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
Choice: 2
Transaction History:---------
usrnm amt stat
serno
36 dhruvpp 18000.0 Deposit
37 dhruvpp 1346567.0 Deposit
38 dhruvpp 10000.0 Withdraw
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
*******Choose the type of data that yo
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 1
Figure 1
Amount deposited
1e6
Deposit
Amount:----------
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
13Nov
13Nov
Date:---------->>>>>>>>>>>
master* 0 3 Live Share Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:55
File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3 DEBUG CONSOLE OUTPUT TERMINAL JUPYTER
*******Choose the type of data that you want to see*******
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 2
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
*******Choose the type of data that you want to see*******
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 3
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
Code
Code
master* 0 3 Live Share Ln 195, Col 28 Spaces: 4 UTF-8 CRLF Python 3.9.13 64-bit (microsoft store) Go Live
ENG 14:57

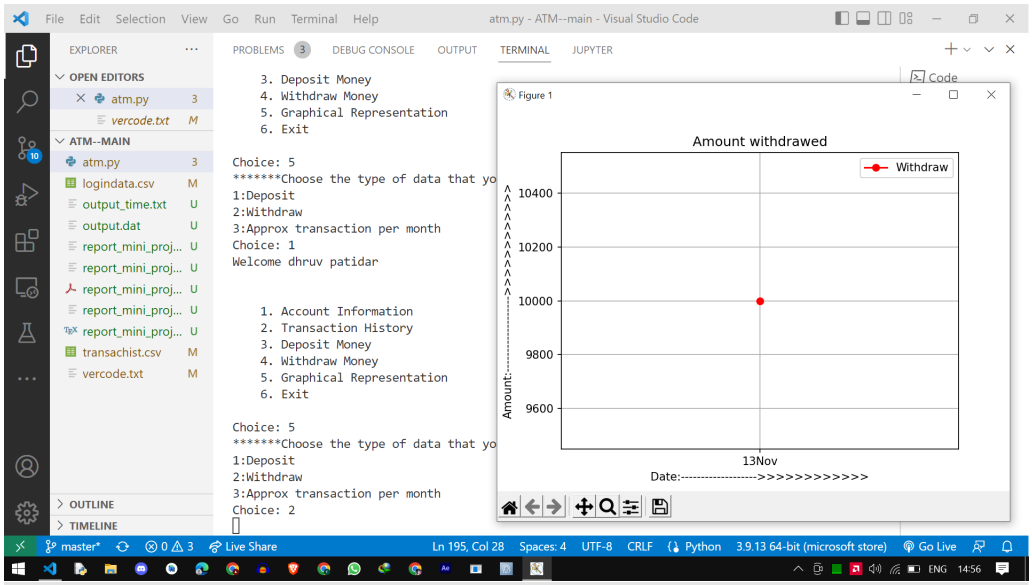


Figure 1
Amount withdrawed
Withdraw
10400
10200
10000
9800
9600
Amount:
13Nov
Date:---------->>>>>>>>>>>>
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 1
Welcome dhruv patidar
Choice: 2

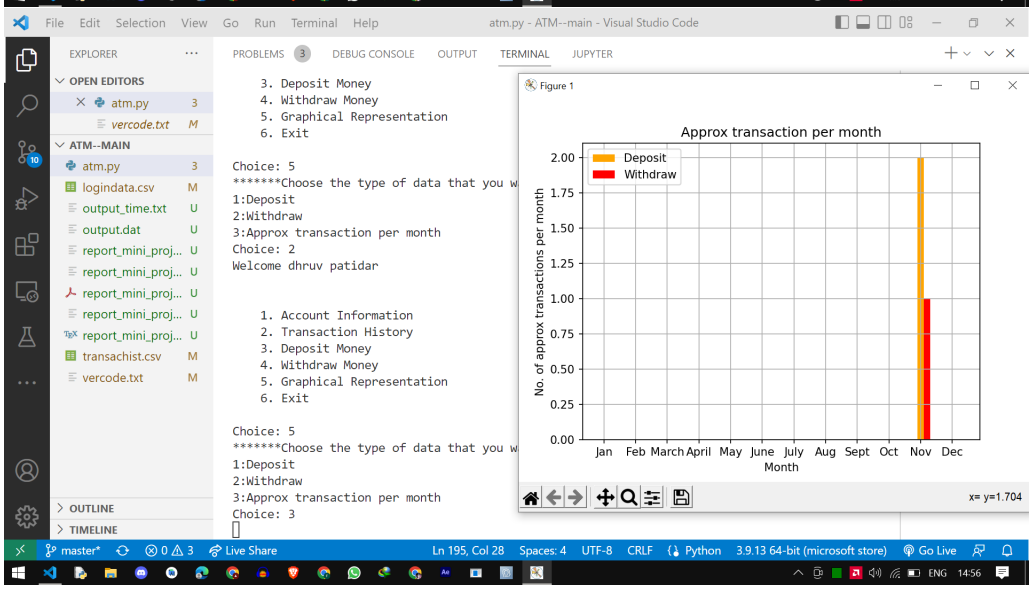
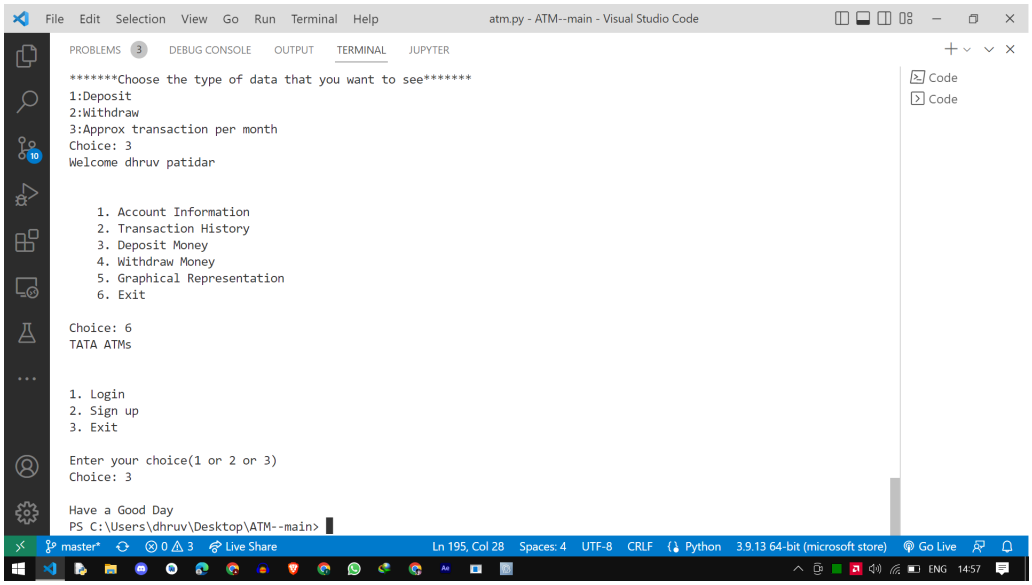


Figure 1
Approx transaction per month
Deposit
Withdraw
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
No. of approx transactions per month
Jan Feb March April May June July Aug Sept Oct Nov Dec
Month
x= y=1.704
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 5
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 2
Welcome dhruv patidar
Choice: 3


File Edit Selection View Go Run Terminal Help
atm.py - ATM--main - Visual Studio Code
PROBLEMS 3
DEBUG CONSOLE
OUTPUT
TERMINAL
JUPYTER
*******Choose the type of data that you want to see*******
1:Deposit
2:Withdraw
3:Approx transaction per month
Choice: 3
Welcome dhruv patidar
1. Account Information
2. Transaction History
3. Deposit Money
4. Withdraw Money
5. Graphical Representation
6. Exit
Choice: 6
TATA ATMs
1. Login
2. Sign up
3. Exit
Enter your choice(1 or 2 or 3)
Choice: 3
Have a Good Day
PS C:\Users\dhruv\Desktop\ATM--main>
Code
Code
master*
0 3
Live Share
Ln 195, Col 28
Spaces: 4
UTF-8
CRLF
Python
3.9.13 64-bit (microsoft store)
Go Live
ENG
14:57