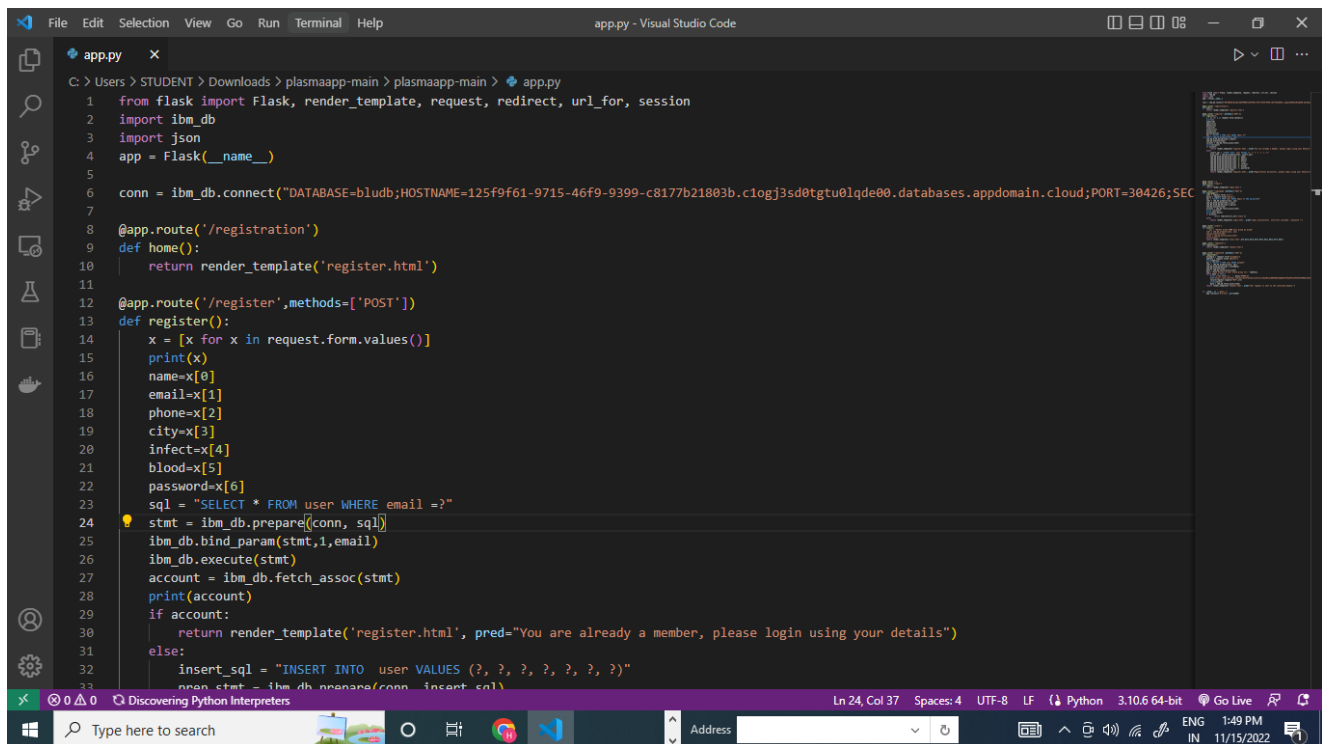
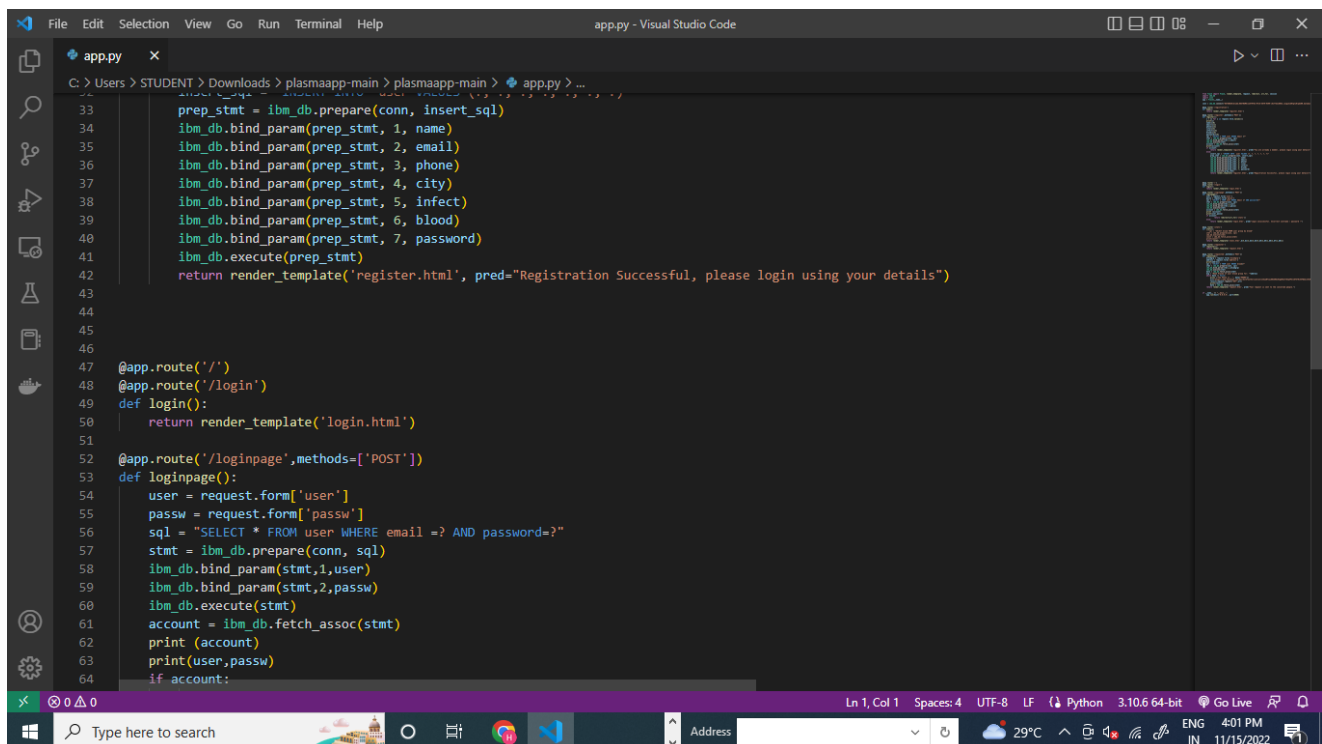


# CONNECT IBM DB2 WITH PYTHON

|              |                          |
|--------------|--------------------------|
| Date         | 12 November 2022         |
| Team ID      | PNT2022TMID29957         |
| Project Name | Plasma Donor Application |



```
app.py
C:\Users\STUDENT>Downloads>plasmaapp-main>plasmaapp-main>app.py
1 from flask import Flask, render_template, request, redirect, url_for, session
2 import ibm_db
3 import json
4 app = Flask(__name__)
5
6 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-c8177b21803b.clogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT=30426;SEC
7
8 @app.route('/registration')
9 def home():
10     return render_template('register.html')
11
12 @app.route('/register', methods=['POST'])
13 def register():
14     x = [x for x in request.form.values()]
15     print(x)
16     name=x[0]
17     email=x[1]
18     phone=x[2]
19     city=x[3]
20     infect=x[4]
21     blood=x[5]
22     password=x[6]
23     sql = "SELECT * FROM user WHERE email =?"
24     stmt = ibm_db.prepare(conn, sql)
25     ibm_db.bind_param(stmt,1,email)
26     ibm_db.execute(stmt)
27     account = ibm_db.fetch_assoc(stmt)
28     print(account)
29     if account:
30         return render_template('register.html', pred="You are already a member, please login using your details")
31     else:
32         insert_sql = "INSERT INTO user VALUES (?, ?, ?, ?, ?, ?, ?)"
33         stmt = ibm_db.prepare(conn, insert_sql)
```



```
app.py
C:\Users\STUDENT>Downloads>plasmaapp-main>plasmaapp-main>app.py
33     prep_stmt = ibm_db.prepare(conn, insert_sql)
34     ibm_db.bind_param(prepare_stmt, 1, name)
35     ibm_db.bind_param(prepare_stmt, 2, email)
36     ibm_db.bind_param(prepare_stmt, 3, phone)
37     ibm_db.bind_param(prepare_stmt, 4, city)
38     ibm_db.bind_param(prepare_stmt, 5, infect)
39     ibm_db.bind_param(prepare_stmt, 6, blood)
40     ibm_db.bind_param(prepare_stmt, 7, password)
41     ibm_db.execute(prepare_stmt)
42     return render_template('register.html', pred="Registration Successful, please login using your details")
43
44
45
46
47 @app.route('/')
48 @app.route('/login')
49 def login():
50     return render_template('login.html')
51
52 @app.route('/loginpage', methods=['POST'])
53 def loginpage():
54     user = request.form['user']
55     passw = request.form['passw']
56     sql = "SELECT * FROM user WHERE email =? AND password=?"
57     stmt = ibm_db.prepare(conn, sql)
58     ibm_db.bind_param(stmt,1,user)
59     ibm_db.bind_param(stmt,2,passw)
60     ibm_db.execute(stmt)
61     account = ibm_db.fetch_assoc(stmt)
62     print (account)
63     print(user,passw)
64     if account:
```

```
File Edit Selection View Go Run Terminal Help app.py - Visual Studio Code
app.py x
C:\Users\STUDENT> Downloads\plasmaapp-main\plasmaapp-main> app.py > ...
64     if account:
65         return redirect(url_for('stats'))
66     else:
67         return render_template('login.html', pred="Login unsuccessful. Incorrect username / password !")
68
69
70 @app.route('/stats')
71 def stats():
72     '''sql = "SELECT blood FROM user group by blood"
73     stmt = ibm_db.prepare(conn, sql)
74     ibm_db.execute(stmt)
75     count = ibm_db.fetch_assoc(stmt)
76     print(count)'''
77     return render_template('stats.html', b=5, b1=2, b2=3, b3=4, b4=2, b5=1, b6=2, b7=1, b8=1)
78
79 @app.route('/requester')
80 def requester():
81     return render_template('request.html')
82
83
84 @app.route('/requested', methods=['POST'])
85 def requested():
86     bloodgrp = request.form['bloodgrp']
87     address = request.form['address']
88     print(address)
89     sql = "SELECT * FROM user WHERE blood=?"
90     stmt = ibm_db.prepare(conn, sql)
91     ibm_db.bind_param(stmt, 1, bloodgrp)
92     ibm_db.execute(stmt)
93     data = ibm_db.fetch_assoc(stmt)
94     msg = "Need Plasma of your blood group for: "+address
95     while data != False:
96         print("The Phone is : ", data["PHONE"])
```

```
File Edit Selection View Go Run Terminal Help app.py - Visual Studio Code
app.py x
C:\Users\STUDENT> Downloads\plasmaapp-main\plasmaapp-main> app.py > ...
96     print("The Phone is : ", data["PHONE"])
97     url="https://www.fast2sms.com/dev/bulk?authorization=xCKuWMTzyj0D2ARd1EngbH3a7tKtQ5Pk1J8YSf0Lh4FQZecs9iNI1dSvuqprxwFwCKYJXA5amQkBE36R1&sen
98     result=request.request("GET",url)
99     print(result)
100     data = ibm_db.fetch_assoc(stmt)
101     return render_template('request.html', pred="Your request is sent to the concerned people.")
102
103
104 if __name__ == "__main__":
105     app.run(host='0.0.0.0', port=8080)
106
107
```