

CREATE IBM DB2 AND CONNECT WITH PYTHON

Date	21 November 2022
Team ID	PNT2022TMID43621
Project Name	Plasma Donor Application

```
IBM Cloud
Search resources and products...
Catalog Manage Arun m's Account

"authentication": {
  "method": "direct",
  "password": "Fcol87sh0WN7YIem",
  "username": "gk174127"
},
"certificate": {
  "certificate_base64": "LS0tLS1CRUdJTT1BDRVJUSUZJQ0FURSB0LS0tck1k1SURIVENQWdXZ0F3SUJBZ0lVT3dvMC9va09CUEN5RjFwFjE3VGVhKR
W9ubD8vd0RRWUplb1pJaHJzTkFRRUwKQ1FBd0hqRWNNQm9HQTFVRUF3d1RTVUp0SUV0c2IzVmt3RVJoZEdGaV1YmTmxjekF1RncweU1EQTRNRF3TWPVWmpNa1phR
ncwek1EQTRNRE13TWpVM01qWmFNQjR4SERBYUJnTlZCQU1NRtBsQ1RTQkR1RzkwNCRV1YUmh3Z0U2G6C1pYTXdnZ0VpTUEwR0NTcludTSW1ZkRFFkFRVUFBN1CR
Hd8d2dnRUtBb01CQVFEB0ZFNQ09SGd0cXZHUWVwR3gkQ1B0amR0Qm4MVBjTDNyRStjN1R3K2d1RUdQSUxJU0VZV304Y1g1TG1XQk0+Y1FnOC9VeS6z0XJ30Eoxa
XdB20pyS+1Iu2T1c1F4MT0c3B0Q0RFVEZAWEhScnJhMCU2Vm4M4M42T113L0ZHSn1103htTCSGMUUFQ09hbyYaeDM2Cnh0T0F+cXRNtIEtTzNpMTRGeU0yRDR2a
jKxckIARCA4Vy9XWpYdVWMMczzXVLZUVccTRuZmh3V3kySV3aUMK0GpMZ3R1N3hZTDVHbVpK0UdaYmt+Sn11cnpNREFQLzVUYNR1UUIjyE1odTBRSVRfZHIES
VFYUEZGR0BHYz1oZa03M29JdnpVZUJ3VC9uRH30T3NNC82Skd1ZWpKN01pdFBN3Y2a2d1UvhiND1BaUVJN3XpQdUUpVzN0Y19GR0pYcmY2a23BZ01CQUFHalV60
13N0jBHQtFVZERaUvdCQ1R2RzZ2RU5MRjFVbWZnQ083Mmx0cmMzSDI2bURB2k3nT1YKSFNNRUdEQVdnQ1R2RzZ2RU5MRjFVbWZnQ083Mmx0cmMzSDI2bURBUEJnT
1Z1Uk1CQWY4RUJUURBUUgyTUEwRmpDU3FHU01iM0RRRUJ0d1VBQTRJQkFRQTRvdFVnUTZ1aTZYMHZnd030dudrbkpvajY5UWNkaTNZbFVFWkNDUyLj1C1VQZ3NmM
nVBM1dxcHlWm1mRkhjchZ1Vmp0VHRYTmk2NUM2W1ZsRnYxc3p1cU9zdF85bk34b1N4cUs0dkc0dTkkVjBWRUgxcE1tznZBSmXkV3c4UE3TzG3tTk1HdGM4S21wT
0o50VdBQ1ZFRXVXVGdDeHJKTfX8ZnpYUx1idUUV0dwp0cW1pV2swTmVXNGSZEY4S2dTmUvAQF0dXVBS1R1dXB2R2RPV1U0eEV44bm03aEVRbmZPV2Z1TtHd088xN
WFZC1RGQ2s0Q0pDlmaR4M1g5U284V3o1Z3MzcncycRkFDQ1jyZ0NyEeFFDZnZzZTlUdVNHkxFRHJHbmpWaXVSQkpZdW4K1R1R1XWROaVBHhpuTHJzL0Fzam1LmZ8xQ
mFLTmFyNUdQajhqa1pNb2R1Z04KLS0tLS1FTkQ09VSVE1GSUNBVEU0LS0tLQo=",
  "name": "1dd14d0c-1b52-4f63-a606-53ecba28771d"
},
"composed": {
  "db2": {
    "db2://gk174127:Fcol87sh0WN7YIem@0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kb1od8lcg.databases.appdomain.cloud:31198/bludb?authSource=admin&replicaSet=rep1set"
  },
  "database": "bludb",
  "host_ros": [
    "0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kb1od8lcg.databases.appdomain.cloud:31372"
  ],
  "hosts": [
    {
      "hostname": "0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kb1od8lcg.databases.appdomain.cloud",
      "port": 31198
    }
  ],
  "jdbc_url": {
    "jdbc:db2://0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kb1od8lcg.databases.appdomain.cloud:31198/bludb:user=cus
erid;password=<your_password>;sslConnection=true;"
  }
}
```

The screenshot shows the Visual Studio Code interface with the file `ibmdb2-connect.py` open. The Explorer sidebar on the left shows the project structure, including `FLASK-WITH-IBM-DB2-M...`, `__pycache__`, `env`, `templates`, `app.py`, `DigiCertGlobalRootC...`, `ibmdb2-connect.py`, and `README.md`. The main editor displays the code for `ibmdb2-connect.py`:

```
1 import ibm_db
2 # import sqlite3
3 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io901
4 print(conn)
5 print("connection successful...")
```

The TERMINAL panel at the bottom shows a Windows PowerShell session. It displays the command `py ibmdb2-connect.py` and its output:

```
PS E:\python3.9\tue\flask-with-ibm-db2-main> py ibmdb2-connect.py
<ibm_db.IBM_DBConnection object at 0x00000180BE2DD770>
connection successful...
PS E:\python3.9\tue\flask-with-ibm-db2-main>
```

The status bar at the bottom indicates the file is at line 5, column 34, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python 3.9.10 64-bit.

The screenshot shows the Visual Studio Code interface with the file `app.py` open. The Explorer sidebar on the left shows the project structure, including `Project Development Phase > Sprint 3 > app.py`. The main editor displays the code for `app.py`:

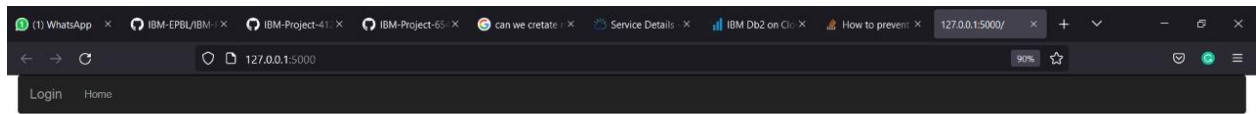
```
4 import os
5 from sendgrid.helpers.mail import *
6 conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90108kqb1od8l1cg.
databases.appdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=gk174127;
PWD=Fcol07sh0WN7YIem", '', '')
7
```

The TERMINAL panel at the bottom shows a Windows PowerShell session. It displays the command `flask --debug run` and its output:

```
PS C:\Users\arunm\Desktop\est\New folder\IBM-Project-6542-1658831141-main\Project Development Phase\Sprint 3> flask --debug run
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 114-325-064
```

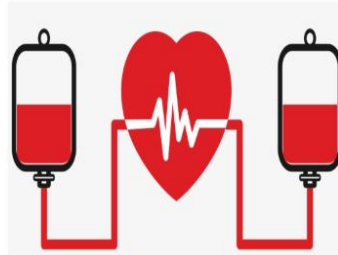
The status bar at the bottom indicates the file is at line 7, column 1, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python 3.9.10 64-bit.



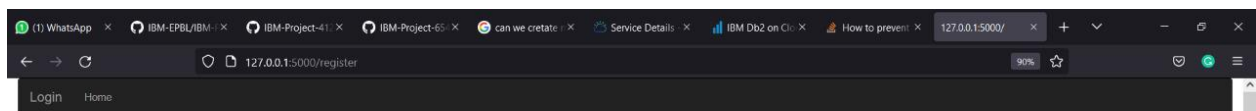
Plasma Donation

[Login](#) [Register Here](#) [About](#)

A Platform for Active Donors



Donate Blood_Save Life



Plasma Donation

Registration page

Name

Email

Enter your phone number:

D.O.B

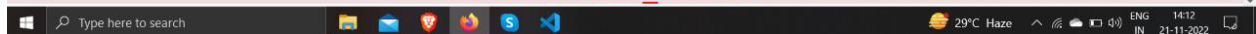
Gender
Select your gender

Blood Group:

weight

New Password

Donate Blood_Save Life



IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables Refresh

Tables New table +

Name	Schema	Properties
LOGIN	GKL74127	...
MEMBERS	GKL74127	...
REQUESTERS	GKL74127	...

Total: 3, selected: 0

Table definition

MEMBERS

Name	Data type	Nullable	Length	Scale
NAME	VARCHAR	Y	255	0
EMAIL	VARCHAR	Y	255	0
PHNO	VARCHAR	Y	255	0
DOB	VARCHAR	Y	255	0
GENDER	VARCHAR	Y	255	0
BLOODGROUP	VARCHAR	Y	255	0
WEIGHT	VARCHAR	Y	255	0

View data

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

GKL74127.MEMBERS Back

Export to CSV

NAME	EMAIL	PHNO	DOB	GENDER	BLOODGROUP	WEIGHT	PASSWORD	NEW_COLUMN1
varun	arun@gmail.com	8270175225	10-12-2000	male	b	48		
varun	arun@gmail.com	8270175225	10-12-2000	male	b	48	arun@2000	