CONNECTING IBM DB2 WITH PYTHON

FLASK APPLICATION

TEAM ID	PNT2022TMID01360
PROJECT NAME	SMART FASHION RECOMMENDER APPLICATION

STEP -1 :

```
PROBLEMS  5      DEBUG CONSOLE    TERMINAL    JUPYTER                                    Python  +  ⊡  🗑  ^  ×

PS C:\Users\pavit\OneDrive\Desktop\IBM\DB2-flask\db2 connection> pip install ibm_db
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: ibm_db in c:\users\pavit\appdata\roaming\python\python310\site-packages (3.1.1)
WARNING: There was an error checking the latest version of pip.
PS C:\Users\pavit\OneDrive\Desktop\IBM\DB2-flask\db2 connection> []
```

STEP -2:

```python
import ibm_db
```

STEP-3:

```python
dsn_hostname = "fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "OLfiBElZMLDcgFA9"
dsn_pwd = "tlj98829"

dsn_driver ="{IBM DB2 ODBC DRIVER}"
dsn_database = "BLUDB"
dsn_port = "32731"
dsn_protocol = "TCPIP"
```

STEP-4:

```python
dsn = (
    "DRIVER={0};"
    "DATABASE{1};"
    "HOSTNAME={2};"
    "PORT={3};"
    "PROTOCOL = {4};"
    "UID = {5};"
    "PWD = {6};").FORMAT(dsn_driver, dsn_database,dsn_hostname, dsn_port, dsn_protocol,
dsn_protocol, dsn_uid, dsn_pwd)

print(dsn)
```

STEP-5:

```python
try:
    conn = ibm_db.connect(dsn, "", "")
    print("connected to database")
except:
    print("unable to connect:", ibm_db.conn_errormsg())
```

STEP-6:

```python
ibm_db.close(conn)
```

INTEGRATING WITH PYTHON FLASK:

```python
from flask import Flask, render_template, request, redirect, url_for, session
from markupsafe import escape
import ibm_db
conn = ibm_db.connect("DATABASE=BLUDB;HOSTNAME=fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=327

app = Flask(__name__)

@app.route('/')
def home():
    return render_template('home.html')

@app.route("/signup")
def signup():
    return render_template("signup.html")
```