Team ID	PNT2022TMID48406
Project Name	Project – Nutrition Assistant Application
Maximum Marks	8 Marks

IMPLEMENTING WEB APPLICATION

STEPS TO CREATE IBM DB2 AND CONNECTION WITH PYTHON

STEP 1: Import the ibm_db Python library:

!pip install --force-reinstall ibm_db==3.1.0 ibm_db_sa==0.3.7

import ibm_db

STEP 2: Identify the database connection credentials:

dsn_hostname = "2d46b6b4-cbf6-40eb-bbce-6251e6ba0300.bs2io90l08kqb1od8lcg.databases.appdomain.clou

d" dsn_uid = "krn24589"   dsn_pwd = "8i99ojsde443knfdbio"

dsn_driver = "{IBM DB2 ODBC DRIVER}" dsn_database =

"BLUDB"

e.g. "BLUDB" dsn_port = "42428"   # e.g. "89327"

dsn_protocol = "TCPIP"   # i.e. "TCPIP" dsn_security =

"SSL"   #i.e. "SSL"

STEP 3: Create the DB2 database connection:

dsn = (

  "DRIVER={0};"

  "DATABASE={1};"

  "HOSTNAME={2};"

  "PORT={3};"

  "PROTOCOL={4};"

  "UID={5};"

  "PWD={6};"

  "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,

dsn_protocol, dsn_uid, dsn_pwd,dsn_security) print(dsn) Now establish the

connection to the database

try:

```python
    conn = ibm_db.connect(dsn, "", "")    print ("Connected to database: ", dsn_database,
"as user: ", dsn_uid, "on host: ", dsn_hostname)


except:
    print ("Unable to connect: ", ibm_db.conn_errormsg() )
server = ibm_db.server_info(conn)


print ("DBMS_NAME: ", server.DBMS_NAME) print ("DBMS_VER:
", server.DBMS_VER) print ("DB_NAME:   ", server.DB_NAME)


client = ibm_db.client_info(conn)


print ("DRIVER_NAME:            ", client.DRIVER_NAME)   print ("DRIVER_VER:
",    client.DRIVER_VER)    print    ("DATA_SOURCE_NAME:                      ",
client.DATA_SOURCE_NAME)    print    ("DRIVER_ODBC_VER:                  ",
client.DRIVER_ODBC_VER) print
("ODBC_VER:         ", client.ODBC_VER)
print ("ODBC_SQL_CONFORMANCE: ", client.ODBC_SQL_CONFORMANCE)
print ("APPL_CODEPAGE:      ", client.APPL_CODEPAGE) print ("CONN_CODEPAGE:      ",
client.CONN_CODEPAGE)
```

STEP 4: Close the Connection:

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