**Assignment 7**

# File: connect\_pg.py

import psycopg2

try:

conn = psycopg2.connect(

dbname="testdb",

user="postgres",

password="yourpassword",

host="localhost",

port="5432"

)

print("Database connection successful!")

except Exception as e:

print("Error:", e)

output

Database connection successful!

Create a Table

# File: create\_table.py

import psycopg2

conn = psycopg2.connect(dbname="testdb", user="postgres", password="yourpassword", host="localhost")

cur = conn.cursor()

cur.execute("""

CREATE TABLE IF NOT EXISTS students (

id SERIAL PRIMARY KEY,

name VARCHAR(100),

age INT

)

""")

conn.commit()

cur.close()

conn.close()

print("Table created successfully.")

Output

Table created successfully.

Insert Data

**# File: insert\_data.py**

**import psycopg2**

**conn = psycopg2.connect(dbname="testdb", user="postgres", password="yourpassword", host="localhost")**

**cur = conn.cursor()**

**cur.execute("INSERT INTO students (name, age) VALUES (%s, %s)", ('Alice', 22))**

**conn.commit()**

**cur.close()**

**conn.close()**

**print("Data inserted.")**

**output**

**Data inserted.**

Query Data

**# File: query\_data.py**

**import psycopg2**

**conn = psycopg2.connect(dbname="testdb", user="postgres", password="yourpassword", host="localhost")**

**cur = conn.cursor()**

**cur.execute("SELECT \* FROM students")**

**rows = cur.fetchall()**

**for row in rows:**

**print(row)**

**cur.close()**

**conn.close()**

**output**

**(1, 'Alice', 22)**

Update and Delete Data

**Update and delete done.**