```python
TASK 1

num = int(input("Enter an integer: "))


if num % 2 == 0:
    print(num, "is an Even number.")
else:
    print(num, "is an Odd number.")



TASK 2

total_sum = 0


for num in range(1, 51):
    total_sum += num


print("The sum of numbers from 1 to 50 is:", total_sum)

```

```
TASK 1

def factorial(n):···


number = 5
result = factorial(number)

print("Factorial of", number, "is:", result)


TASK 2

import math


num = float(input("Enter a number: "))


square_root = math.sqrt(num)
natural_log = math.log(num)
sine_value = math.sin(num)


print("Square root of", num, "is:", square_root)
print("Natural logarithm of", num, "is:", natural_log)
print("Sine of", num, "is:", sine_value)
```

```python
TASK 1

try:
    with open("sample.txt", "r") as file:
        for line in file:
            print(line.strip())
except FileNotFoundError:
    print("Error: The file 'sample.txt' does not exist.")



TASK 2

data = input("Enter a value: ")

with open("output.txt", "w") as file:
    file.write(data + "\n")

with open("output.txt", "a") as file:
    file.write("Appended data\n")


with open("output.txt", "r") as file:
    print(file.read())
```

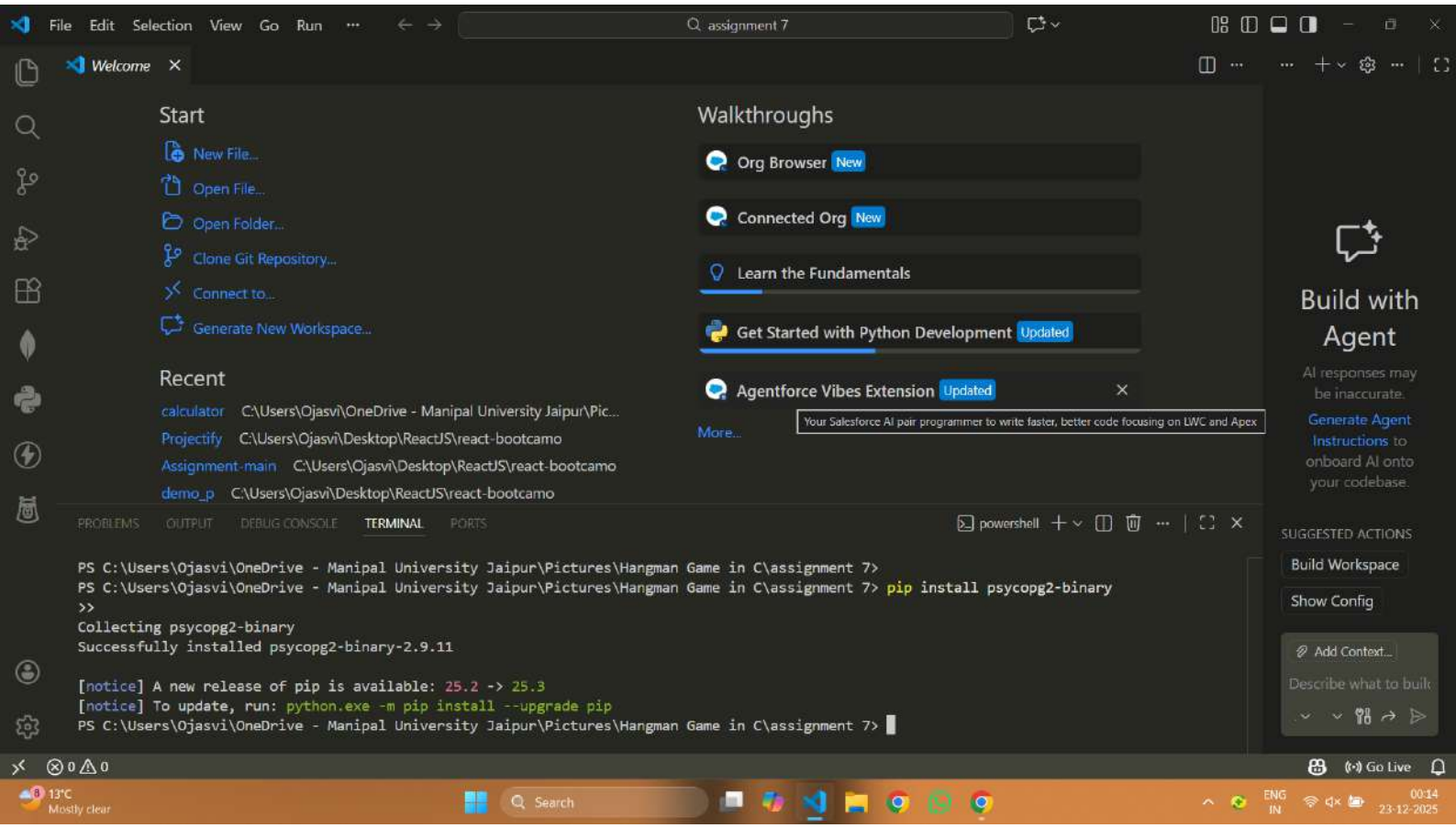
```python
TASK 1

student_marks = {...

name = input("Enter the student's name: ")

if name in student_marks:
    print(f"Marks of {name}: {student_marks[name]}")
else:
    print("Student name not found.")

TASK 2

numbers = list(range(1, 11))

first_five = numbers[:5]

reversed_list = first_five[::-1]
```

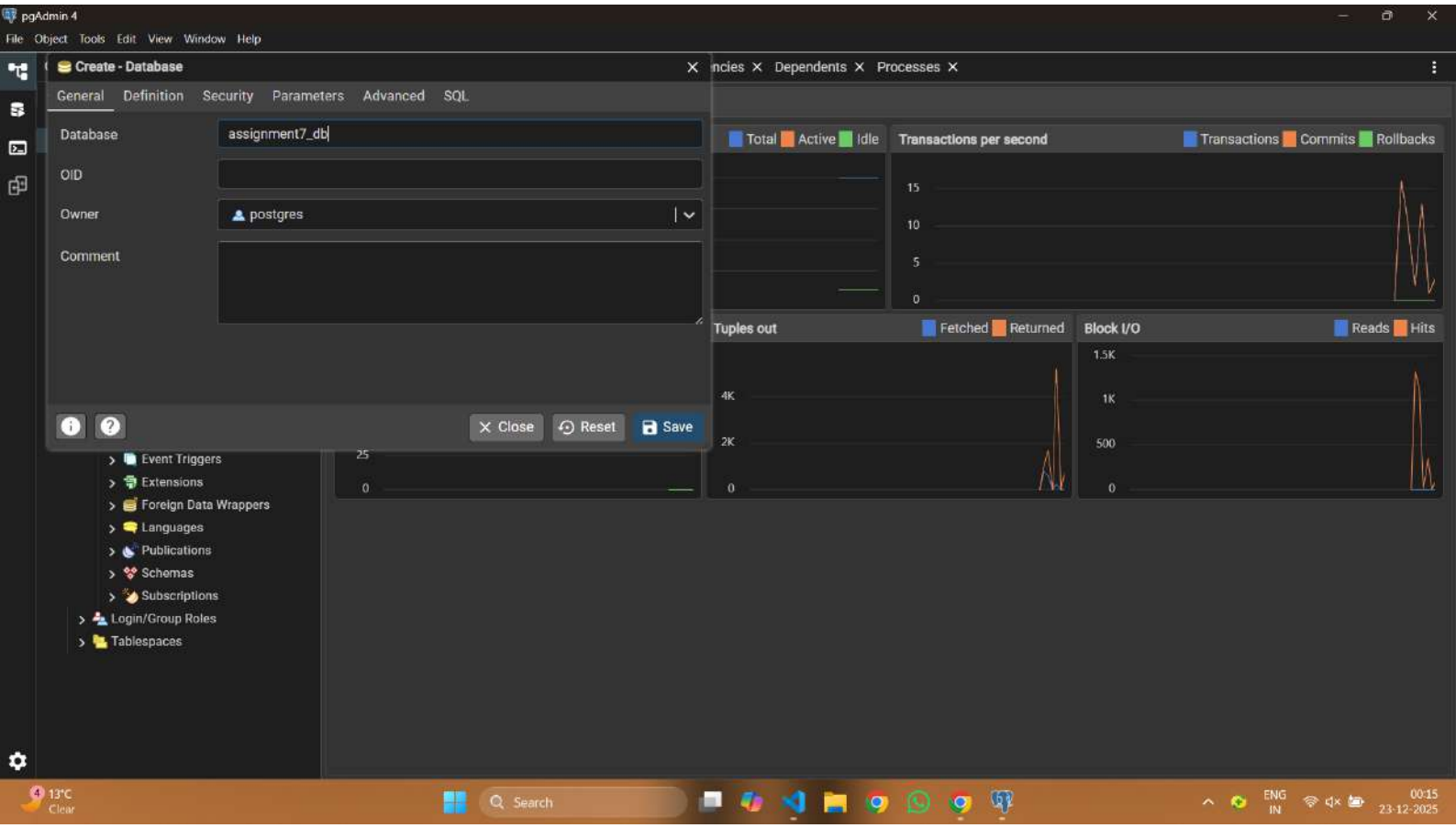
```python
TASK 1

student_marks = {...

name = input("Enter the student's name: ")

if name in student_marks:
    print(f"Marks of {name}: {student_marks[name]}")
else:
    print("Student name not found.")

TASK 2

numbers = list(range(1, 11))

first_five = numbers[:5]

reversed_list = first_five[::-1]

print("Original list:", numbers)
print("Extracted list:", first_five)
print("Reversed list:", reversed_list)
```

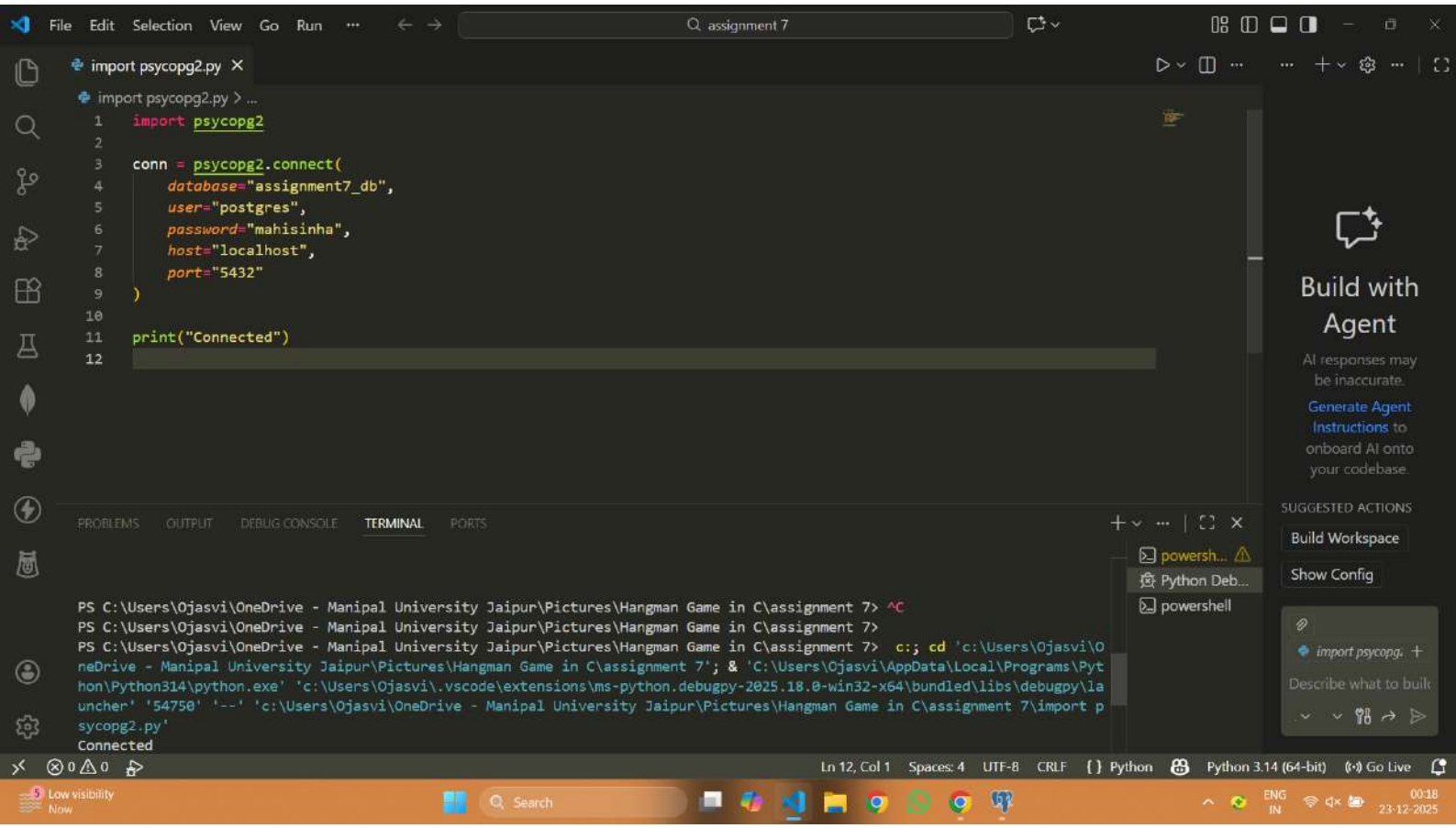
```python
import tkinter as tk

# Create main window
root = tk.Tk()
root.title("Calculator")
root.geometry("300x400")
root.resizable(False, False)

# Entry widget to display input/output
expression = ""
entry = tk.Entry(root, font=("Arial", 20), borderwidth=5, relief=tk.RIDGE, justify="right")
entry.pack(fill="both", ipadx=8, ipady=15, padx=10, pady=10)

# Function to update expression
def press(value):
    global expression
    expression += str(value)
    entry.delete(0, tk.END)
    entry.insert(tk.END, expression)

# Function to calculate result
def equal():
    global expression
    try:
        result = str(eval(expression))
        entry.delete(0, tk.END)
        entry.insert(tk.END, result)
        expression = result
    except:
        entry.delete(0, tk.END)
```

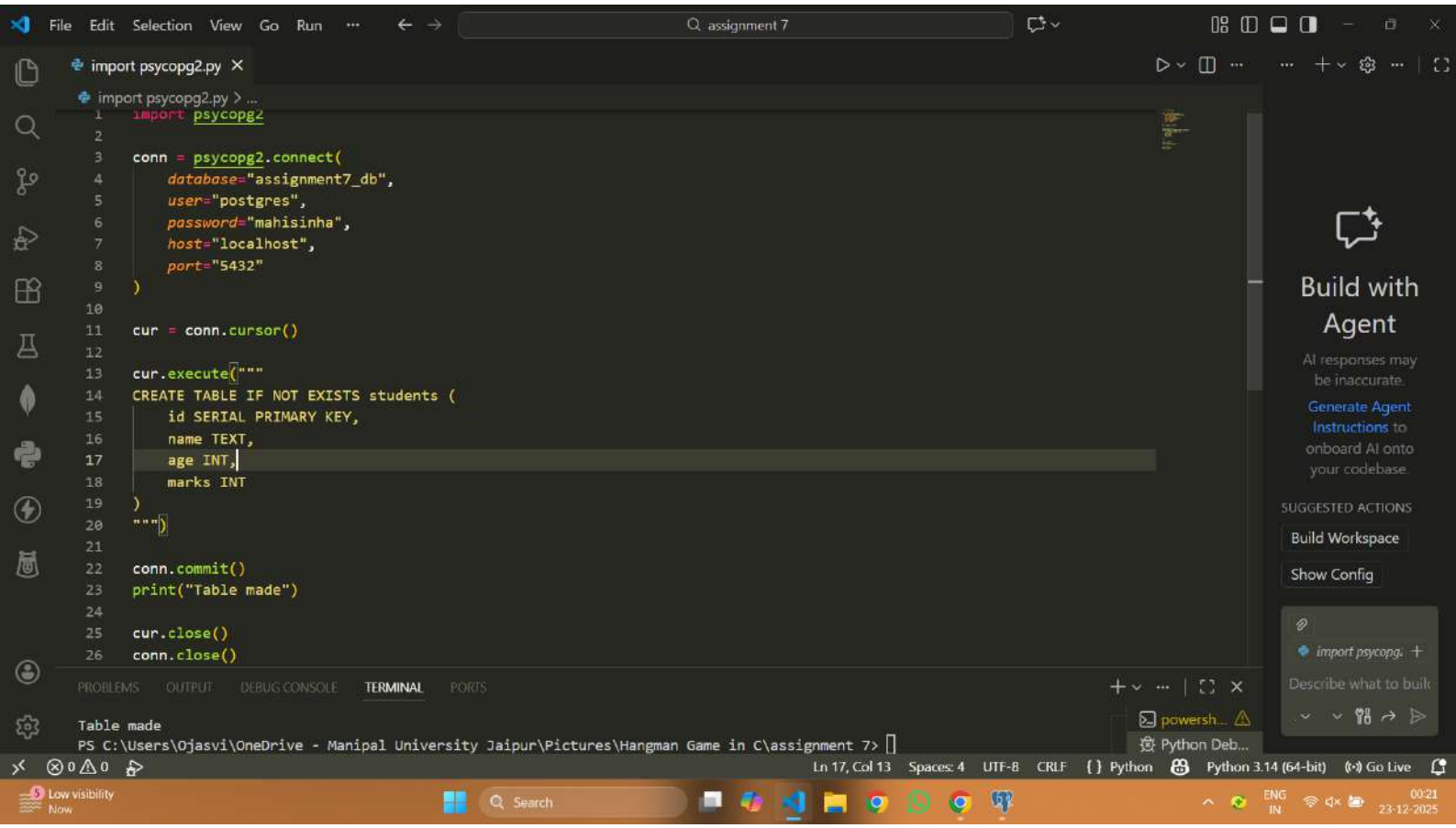
```
    except:
        entry.delete(0, tk.END)
        entry.insert(tk.END, "Error")
        expression = ""

# Function to clear input
def clear():
    global expression
    expression = ""
    entry.delete(0, tk.END)

# Button layout
buttons = [
    ('7', 0, 0), ('8', 0, 1), ('9', 0, 2), ('/', 0, 3),
    ('4', 1, 0), ('5', 1, 1), ('6', 1, 2), ('*', 1, 3),
    ('1', 2, 0), ('2', 2, 1), ('3', 2, 2), ('-', 2, 3),
    ('0', 3, 0), ('.', 3, 1), ('=', 3, 2), ('+', 3, 3)
]

frame = tk.Frame(root)
frame.pack()

for text, row, col in buttons:
    if text == '=':
        btn = tk.Button(frame, text=text, width=5, height=2, font=("Arial", 14),
                        command=equal)
```

```
    else:
        btn = tk.Button(frame, text=text, width=5, height=2, font=("Arial", 14),
                        command=lambda t=text: press(t))
    btn.grid(row=row, column=col, padx=5, pady=5)

# Clear button
clear_btn = tk.Button(root, text="Clear", font=("Arial", 14),
                      command=clear)
clear_btn.pack(fill="x", padx=10, pady=10)

root.mainloop()
```


File Edit Selection View Go Run ···
assignment 7
Welcome
Start
New File...
Open File...
Open Folder...
Clone Git Repository...
Connect to...
Generate New Workspace...
Recent
calculator C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pic...
Projectify C:\Users\Ojasvi\Desktop\ReactJS\react-bootcamo
Assignment-main C:\Users\Ojasvi\Desktop\ReactJS\react-bootcamo
demo_p C:\Users\Ojasvi\Desktop\ReactJS\react-bootcamo
Walkthroughs
Org Browser New
Connected Org New
Learn the Fundamentals
Get Started with Python Development Updated
Agentforce Vibes Extension Updated
Your Salesforce AI pair programmer to write faster, better code focusing on LWC and Apex
More...
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
Add Context...
Describe what to build
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7> pip install psycopg2-binary
>>
Collecting psycopg2-binary
Successfully installed psycopg2-binary-2.9.11
[notice] A new release of pip is available: 25.2 -> 25.3
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
0 0
Go Live
13°C Mostly clear
Search
ENG IN
00:14 23-12-2025


pgAdmin 4
File Object Tools Edit View Window Help
Create - Database
General Definition Security Parameters Advanced SQL
Database assignment7_db
OID
Owner postgres
Comment
Close Reset Save
Dependents Processes
Total Active Idle
Transactions per second
Transactions Commits Rollbacks
15
10
5
0
Tuples out
Fetched Returned
4K
2K
0
Block I/O
Reads Hits
1.5K
1K
500
0
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas
Subscriptions
Login/Group Roles
Tablespaces
13°C
Clear
Search
ENG
IN
00:15
23-12-2025


File Edit Selection View Go Run
assignment 7
import psycopg2.py
import psycopg2.py > ...
1 import psycopg2
2
3 conn = psycopg2.connect(
4 database="assignment7_db",
5 user="postgres",
6 password="mahisinha",
7 host="localhost",
8 port="5432"
9)
10
11 print("Connected")
12
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powersh...
Python Deb...
powershell
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7> ^C
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7> c:; cd 'c:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7'; & 'C:\Users\Ojasvi\AppData\Local\Programs\Python\Python314\python.exe' 'c:\Users\Ojasvi\.vscode\extensions\ms-python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '54750' '--' 'c:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7\import psycopg2.py'
Connected
Ln 12, Col 1 Spaces: 4 UTF-8 CRLF { } Python Python 3.14 (64-bit) Go Live
Low visibility Now
Search
ENG IN
00:18 23-12-2025


File Edit Selection View Go Run
assignment 7
import psycopg2.py
import psycopg2
conn = psycopg2.connect(
database="assignment7_db",
user="postgres",
password="mahisinha",
host="localhost",
port="5432"
)
cur = conn.cursor()
cur.execute("""
CREATE TABLE IF NOT EXISTS students (
id SERIAL PRIMARY KEY,
name TEXT,
age INT,
marks INT
)
""")
conn.commit()
print("Table made")
cur.close()
conn.close()
Build with Agent
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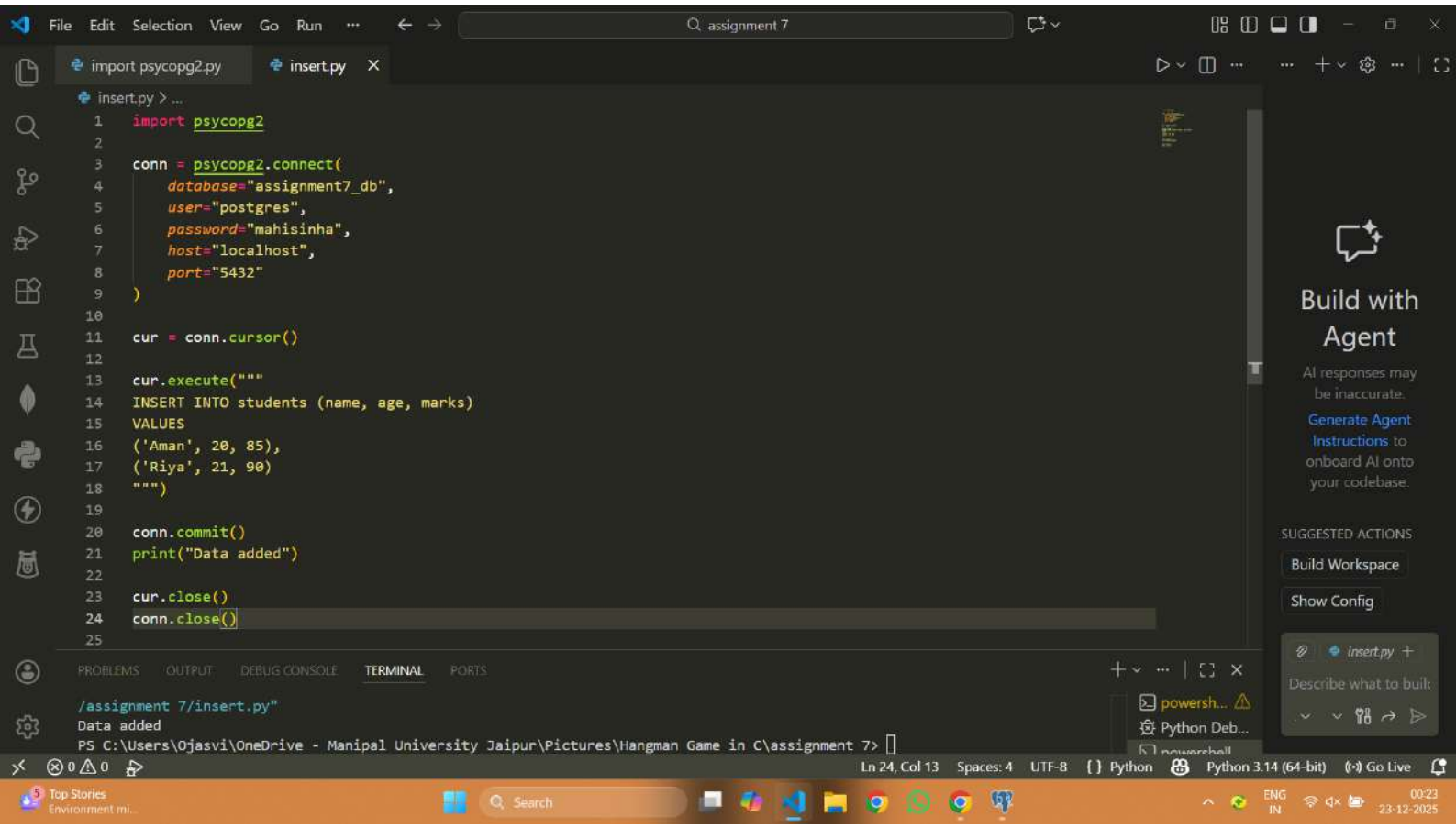
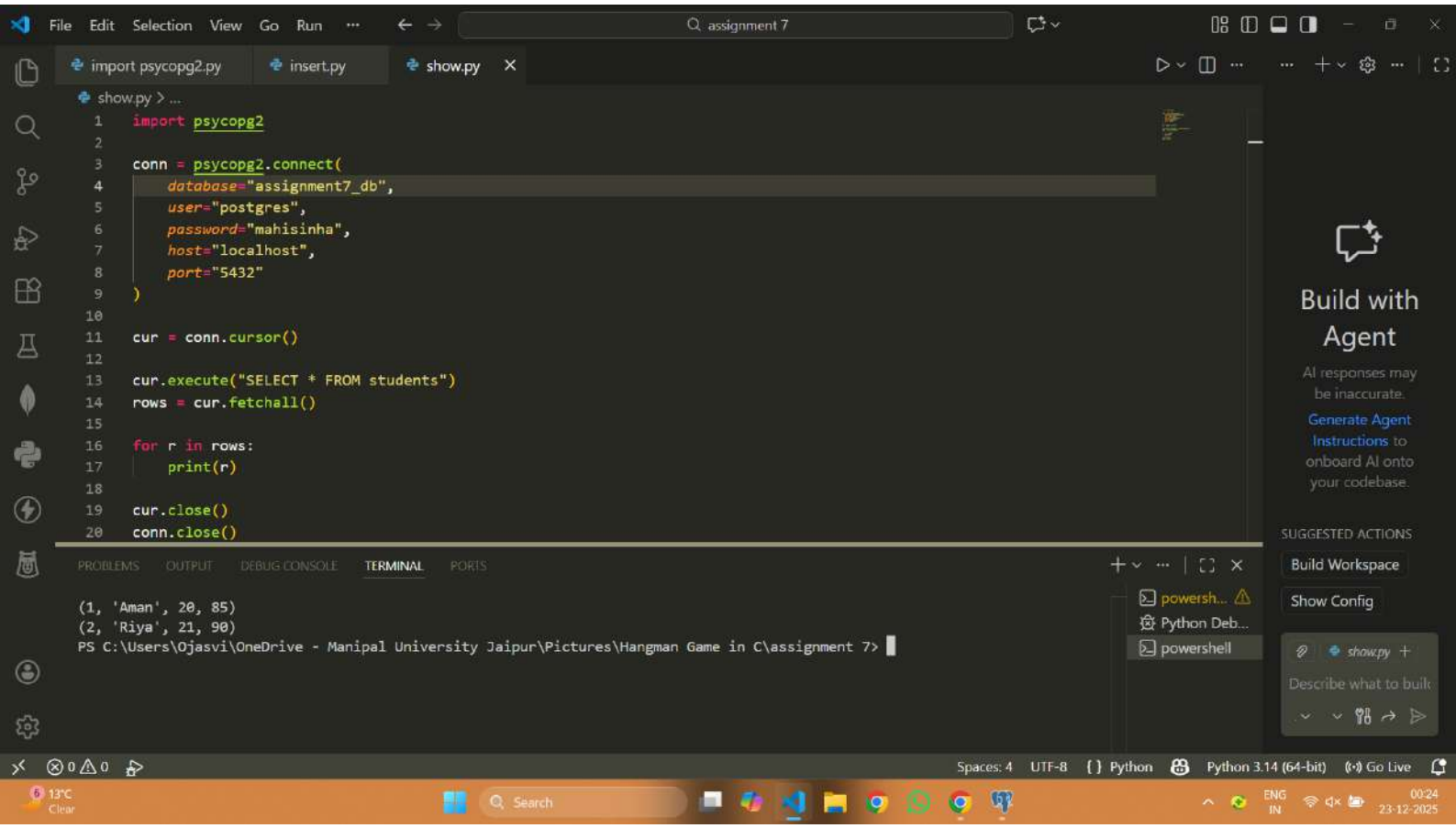
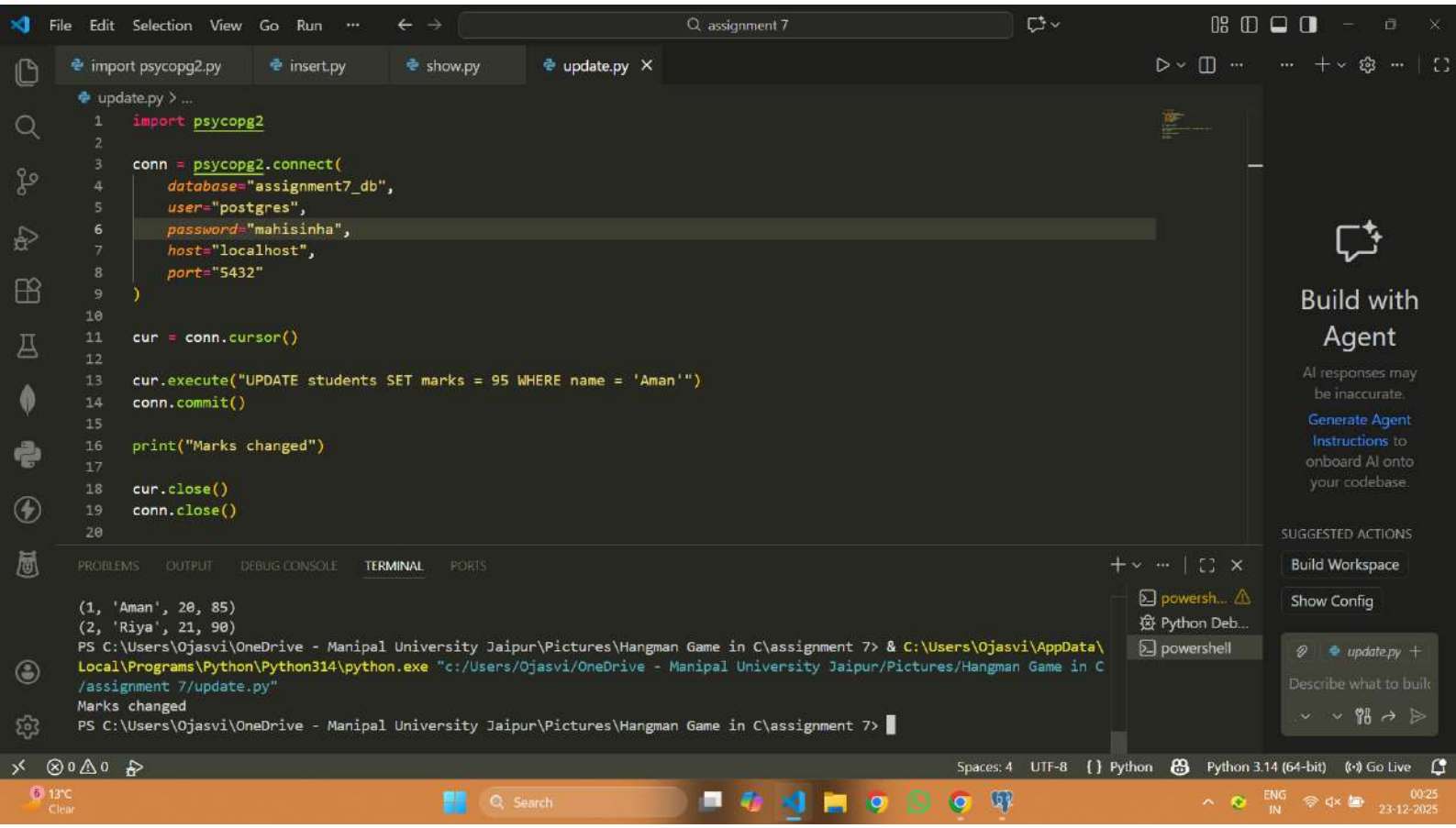
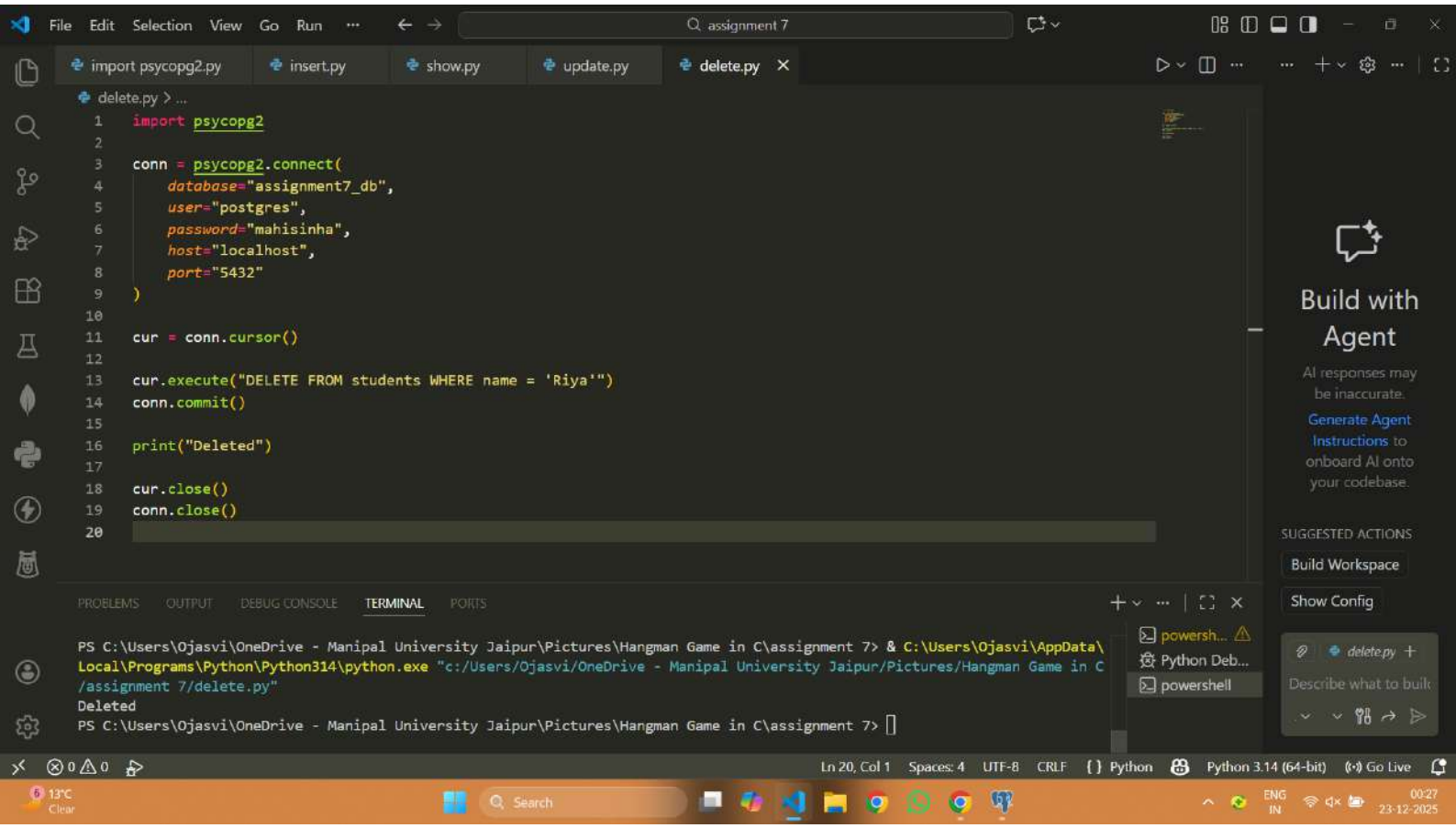
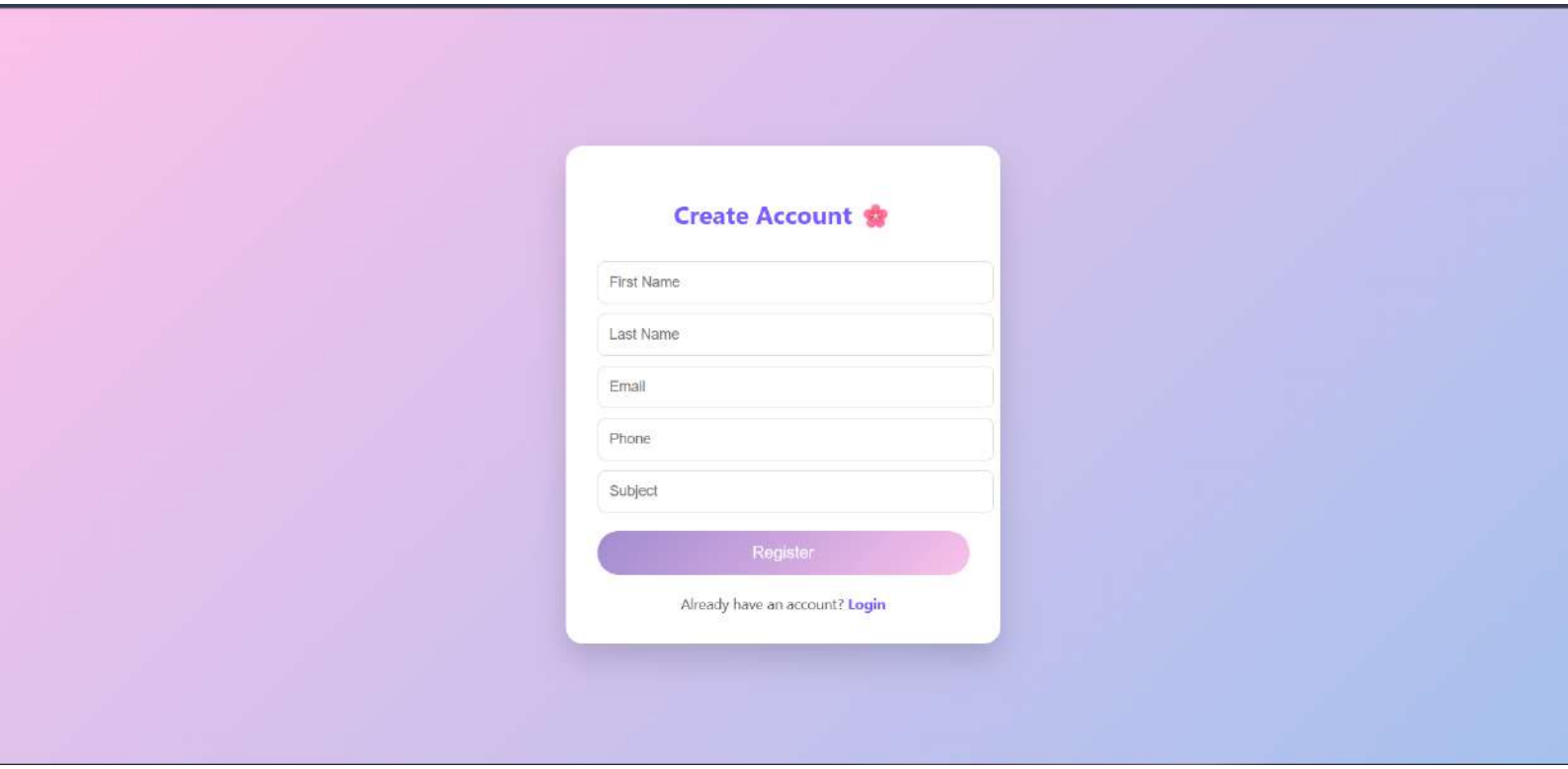
SUGGESTED ACTIONS
Build Workspace
Show Config
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Table made
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
Ln 17, Col 13 Spaces: 4 UTF-8 CRLF Python Python 3.14 (64-bit) Go Live
Search
ENG IN
00:21 23-12-2025

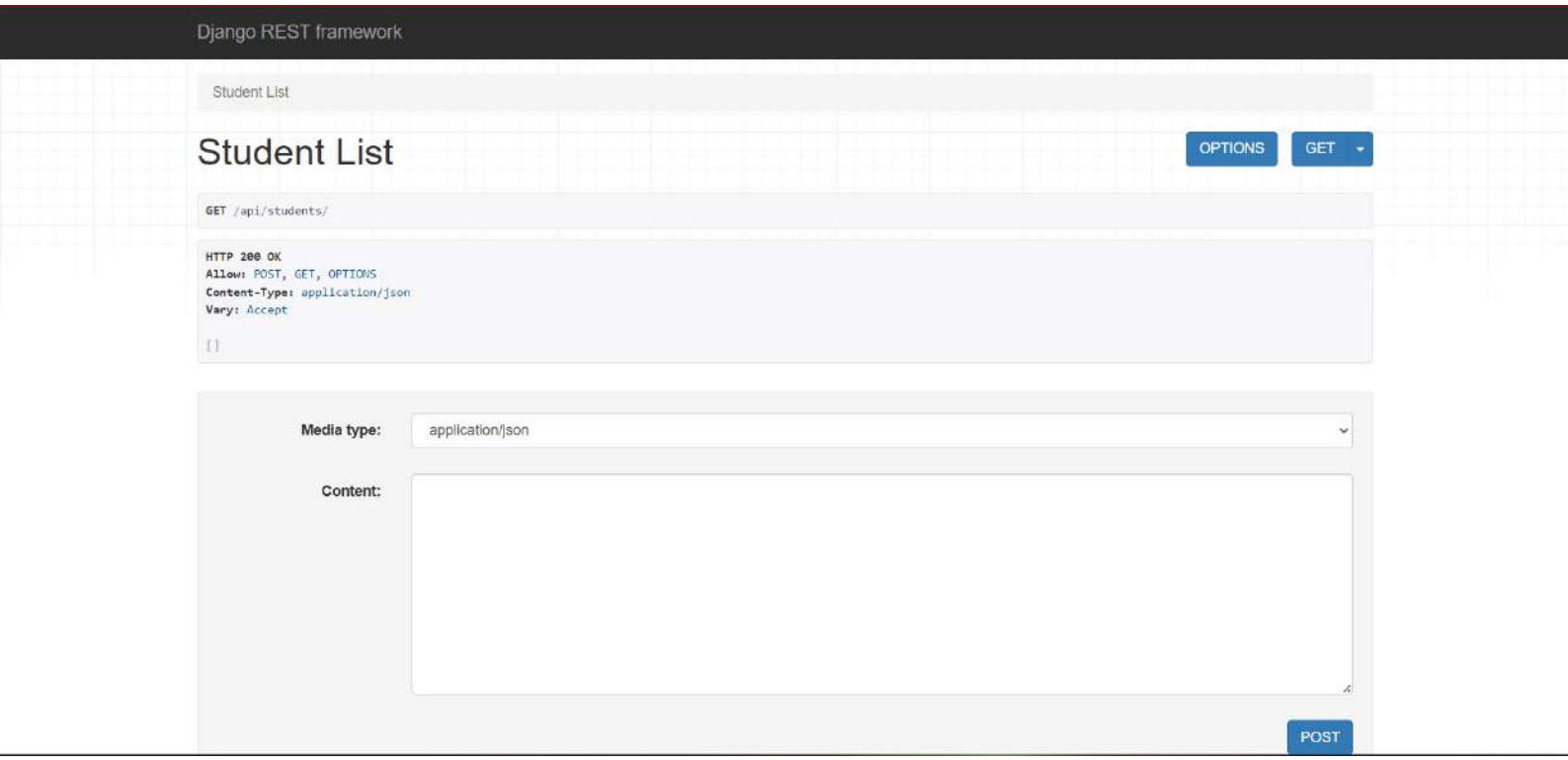

File Edit Selection View Go Run
assignment 7
import psycopg2.py
insert.py
insert.py > ...
1 import psycopg2
2
3 conn = psycopg2.connect(
4 database="assignment7_db",
5 user="postgres",
6 password="mahisinha",
7 host="localhost",
8 port="5432"
9)
10
11 cur = conn.cursor()
12
13 cur.execute("""
14 INSERT INTO students (name, age, marks)
15 VALUES
16 ('Aman', 20, 85),
17 ('Riya', 21, 90)
18 """)
19
20 conn.commit()
21 print("Data added")
22
23 cur.close()
24 conn.close()
25
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
/assignment 7/insert.py"
Data added
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
powersh...
Python Deb...
Ln 24, Col 13 Spaces: 4 UTF-8 Python Python 3.14 (64-bit) Go Live
Top Stories
Search
ENG IN
00:23 23-12-2025

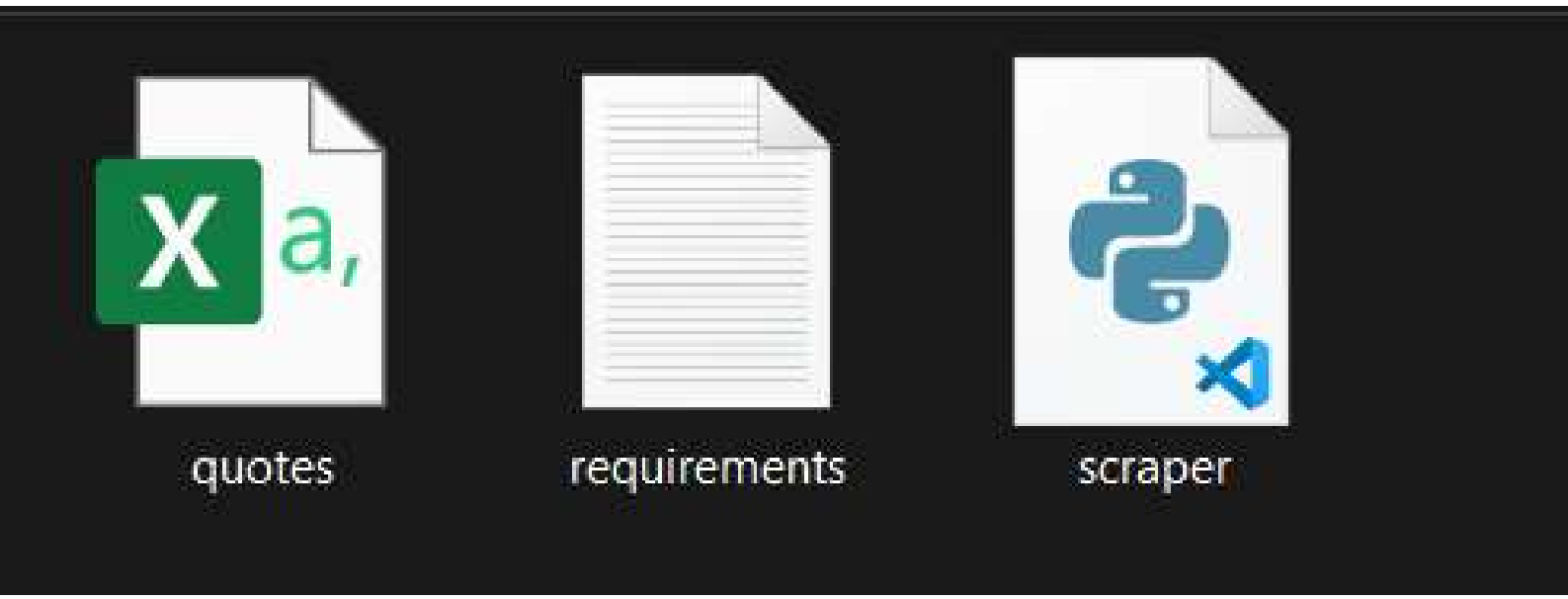

File Edit Selection View Go Run
assignment 7
import psycopg2.py
insert.py
show.py
show.py > ...
1 import psycopg2
2
3 conn = psycopg2.connect(
4 database="assignment7_db",
5 user="postgres",
6 password="mahisinha",
7 host="localhost",
8 port="5432"
9)
10
11 cur = conn.cursor()
12
13 cur.execute("SELECT * FROM students")
14 rows = cur.fetchall()
15
16 for r in rows:
17 print(r)
18
19 cur.close()
20 conn.close()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
(1, 'Aman', 20, 85)
(2, 'Riya', 21, 90)
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
powersh...
Python Deb...
powershell
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
show.py
Describe what to build
Spaces: 4 UTF-8 { } Python Python 3.14 (64-bit) Go Live
13°C Clear
Search
ENG IN
00:24 23-12-2025


File Edit Selection View Go Run
assignment 7
import psycopg2.py
insert.py
show.py
update.py
update.py > ...
1 import psycopg2
2
3 conn = psycopg2.connect(
4 database="assignment7_db",
5 user="postgres",
6 password="mahisinha",
7 host="localhost",
8 port="5432"
9)
10
11 cur = conn.cursor()
12
13 cur.execute("UPDATE students SET marks = 95 WHERE name = 'Aman'")
14 conn.commit()
15
16 print("Marks changed")
17
18 cur.close()
19 conn.close()
20
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
(1, 'Aman', 20, 85)
(2, 'Riya', 21, 90)
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7> & C:\Users\Ojasvi\AppData\Local\Programs\Python\Python314\python.exe "c:/Users/Ojasvi/OneDrive - Manipal University Jaipur/Pictures/Hangman Game in C/assignment 7/update.py"
Marks changed
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
powersh...
Python Deb...
powershell
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
update.py
Describe what to build
Spaces: 4 UTF-8 Python Python 3.14 (64-bit) Go Live
13°C Clear
Search
ENG IN
00:25 23-12-2025


File Edit Selection View Go Run
assignment 7
import psycopg2.py
insert.py
show.py
update.py
delete.py
delete.py > ...
1 import psycopg2
2
3 conn = psycopg2.connect(
4 database="assignment7_db",
5 user="postgres",
6 password="mahisinha",
7 host="localhost",
8 port="5432"
9)
10
11 cur = conn.cursor()
12
13 cur.execute("DELETE FROM students WHERE name = 'Riya'")
14 conn.commit()
15
16 print("Deleted")
17
18 cur.close()
19 conn.close()
20
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7> & C:\Users\Ojasvi\AppData\Local\Programs\Python\Python314\python.exe "c:/Users/Ojasvi/OneDrive - Manipal University Jaipur/Pictures/Hangman Game in C/assignment 7/delete.py"
Deleted
PS C:\Users\Ojasvi\OneDrive - Manipal University Jaipur\Pictures\Hangman Game in C\assignment 7>
powersh...
Python Deb...
powershell
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
SUGGESTED ACTIONS
Build Workspace
Show Config
delete.py
Describe what to build
Ln 20, Col 1 Spaces: 4 UTF-8 CRLF { } Python Python 3.14 (64-bit) Go Live
13°C Clear
Search
ENG IN
00:27 23-12-2025


Create Account
First Name
Last Name
Email
Phone
Subject
Register
Already have an account? Login


Django REST framework
Student List
Student List
OPTIONS
GET
GET /api/students/
HTTP 200 OK
Allow: POST, GET, OPTIONS
Content-Type: application/json
Vary: Accept
[]
Media type:
application/json
Content:
POST


quotes
requirements
scraper