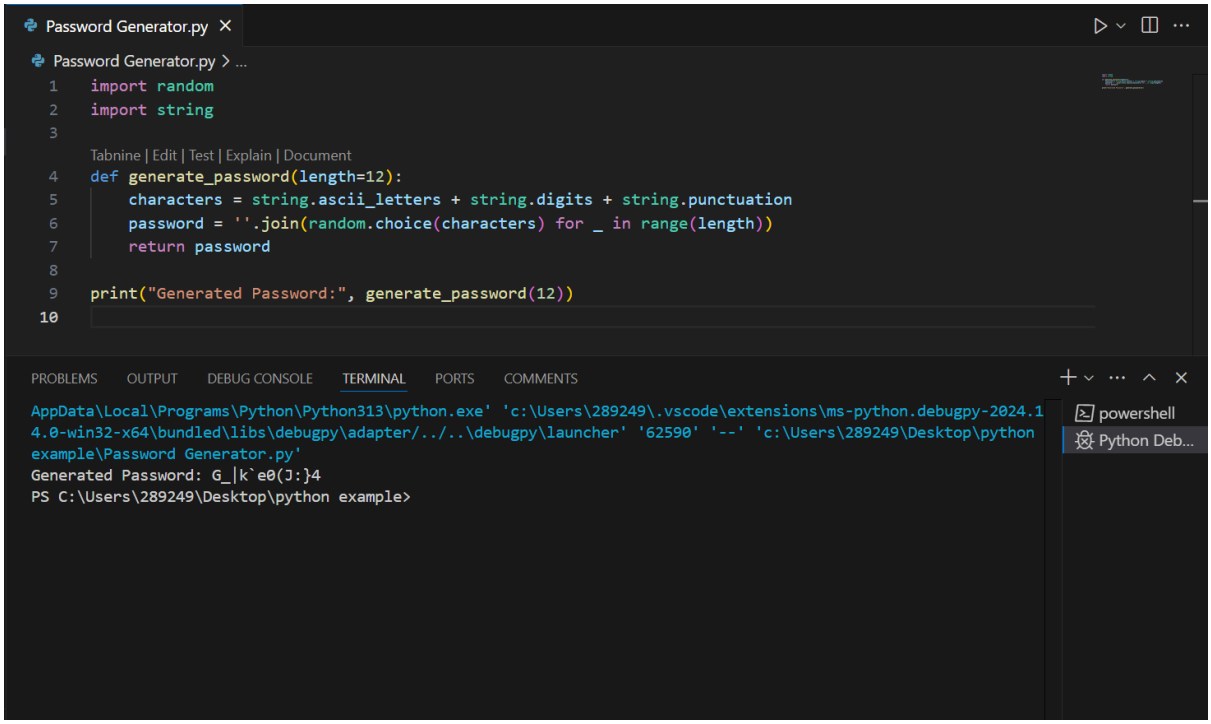
Python projects:

1.Password Generator:



2. To-Do List (CLI):

To-Do List (CLI).py

```python
tasks = []

while True:
    print("\n1. Add Task\n2. View Tasks\n3. Remove Task\n4. Exit")
    choice = input("Enter choice: ")

    if choice == "1":
        task = input("Enter task: ")
        tasks.append(task)
        print("Task added!")

    elif choice == "2":
        print("\nTo-Do List:")
        for idx, task in enumerate(tasks, 1):
            print(f"{idx}. {task}")

    elif choice == "3":
        task_num = int(input("Enter task number to remove: "))
        if 0 < task_num <= len(tasks):
            tasks.pop(task_num - 1)
            print("Task removed!")

    elif choice == "4":
        break

    else:
        print("Invalid choice. Try again.")

```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  ...IMENTS

4. Exit
Enter choice: 1
Enter task: gym,swimming
Task added!

1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter choice: 2

To-Do List:
1. gym,swimming

1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter choice: 3
Enter task number to remove: 1
Task removed!

1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter choice: 4
PS C:\Users\289249\Desktop\python example>

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Python
```

3. Weather App (API-based):

python weather_app.py

```python
# Your actual API key
API_KEY = "b9f26b57eb51a90e313e3b7def017319"  # Your OpenWeather API key

# Get the city name from the user
city = input("Enter city name: ")

# Create the URL to fetch weather data
url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={API_KEY}&units=metric"

# Make a GET request to the API
response = requests.get(url).json()

# Check if the city was found and return the weather information
if response["cod"] == 200:
    print(f"City: {response['name']}")
    print(f"Temperature: {response['main']['temp']}°C")
    print(f"Weather: {response['weather'][0]['description']}")
else:
    print("City not found!")
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS                    Python

/Desktop/python example/python weather_app.py"
Enter city name: chennai
City: Chennai
Temperature: 27.14°C
Enter city name: chennai
City: Chennai
Temperature: 27.14°C
City: Chennai
Temperature: 27.14°C
Weather: clear sky
PS C:\Users\289249\Desktop\python example>

                                  > & C:/Users/289249/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/289249
/Desktop/python example/python weather_app.py"
Enter city name: london
City: London
Temperature: 2.82°C
Weather: overcast clouds
PS C:\Users\289249\Desktop\python example>
```

4. Number Guessing Game:

Number Guessing Game.py

```python
import random

number = random.randint(1, 100)

while True:
    guess = int(input("Guess the number (1-100): "))

    if guess < number:
        print("Too low! Try again.")
    elif guess > number:
        print("Too high! Try again.")
    else:
        print("Congratulations! You guessed it right.")
        break

```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS

PS C:\Users\289249\Desktop\python example> & C:/Users/289249/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/289249
/Desktop/python example/Number Guessing Game.py"
Guess the number (1-100): 77
Too high! Try again.
Guess the number (1-100): 50
Guess the number (1-100): 50
Too low! Try again.
Guess the number (1-100): 22
Too low! Try again.
Guess the number (1-100): 3
Too low! Try again.
Guess the number (1-100): 9
Too low! Try again.
Guess the number (1-100): 9
Guess the number (1-100): 9
Too low! Try again.
Guess the number (1-100): 99
Too high! Try again.
Guess the number (1-100): 67
Guess the number (1-100): 99
Too high! Try again.
Guess the number (1-100): 99
Guess the number (1-100): 99
Guess the number (1-100): 99
Too high! Try again.
Guess the number (1-100): 99
Too high! Try again.
Guess the number (1-100): 67
Congratulations! You guessed it right.
PS C:\Users\289249\Desktop\python example>
```

5. QR Code Generator:

QR Code Generator.py

```python
import qrcode

data = input("Enter text or URL: ")
qr = qrcode.make(data)
qr.save("qrcode.png")
print("QR Code generated and saved as 'qrcode.png'!")
import qrcode

# Ask the user for input (text or URL)
data = input("Enter text or URL: ")

# Create the QR code using the entered data
qr = qrcode.make(data)

# Save the generated QR code as an image file
qr.save("qrcode.png")

# Print a confirmation message
print("QR Code generated and saved as 'qrcode.png'!")
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS

"c:/Users/289249/Desktop/python example/QR Code Generator.py"
"c:/Users/289249/Desktop/python example/QR Code Generator.py"
Enter text or URL: https://github.com/ssethumadav
Enter text or URL: https://github.com/ssethumadav
QR Code generated and saved as 'qrcode.png'!
Enter text or URL:
```

powershell
Python