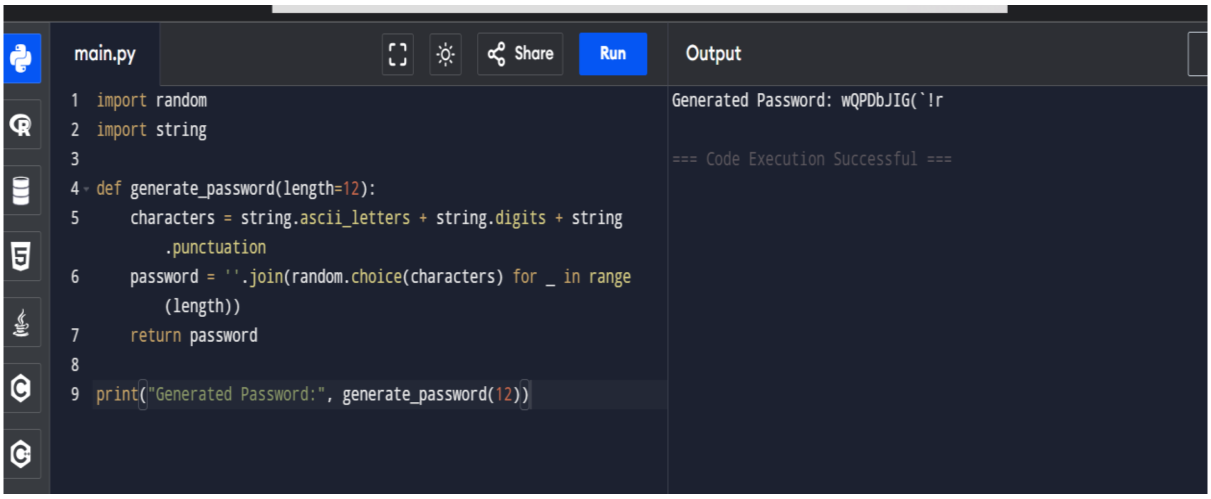
PYTHON BASIC PROJECTS

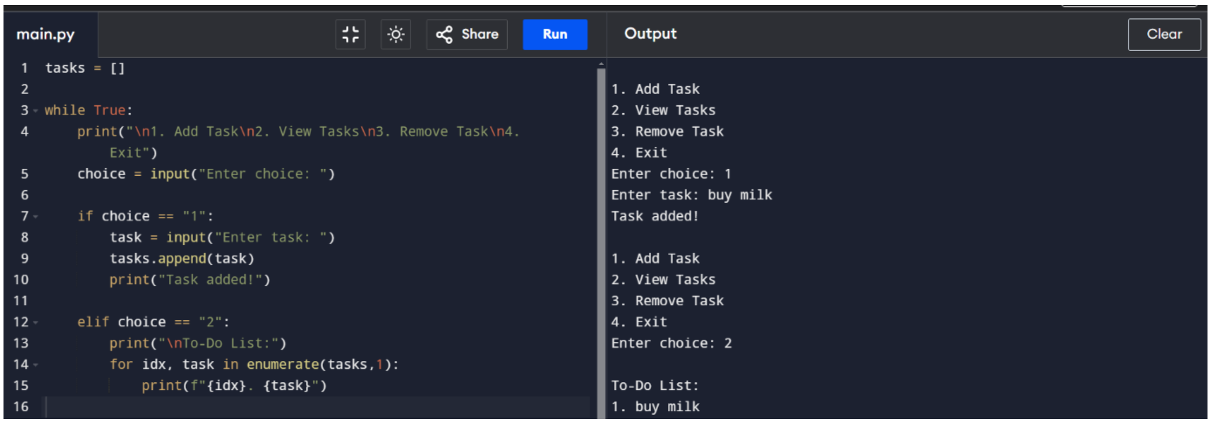
Python Program for random password generators



```python
import random
import string

def generate_password(length=12):
    characters = string.ascii_letters + string.digits + string
        .punctuation
    password = ''.join(random.choice(characters) for _ in range
        (length))
    return password

print("Generated Password:", generate_password(12))
```

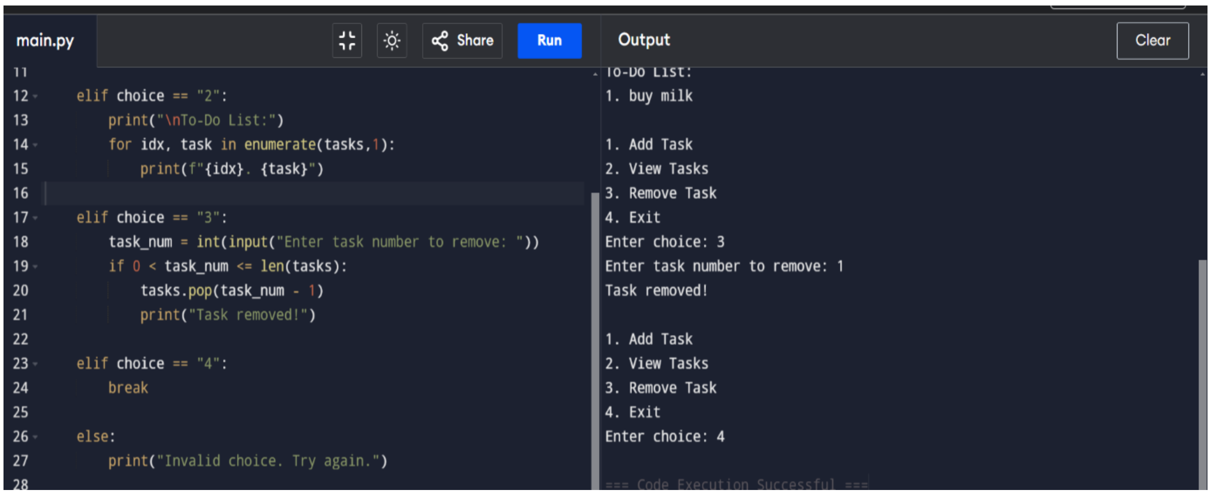
```
Generated Password: wQPDbJIG(`!r

=== Code Execution Successful ===
```

Python Todolist Program



```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}")

```

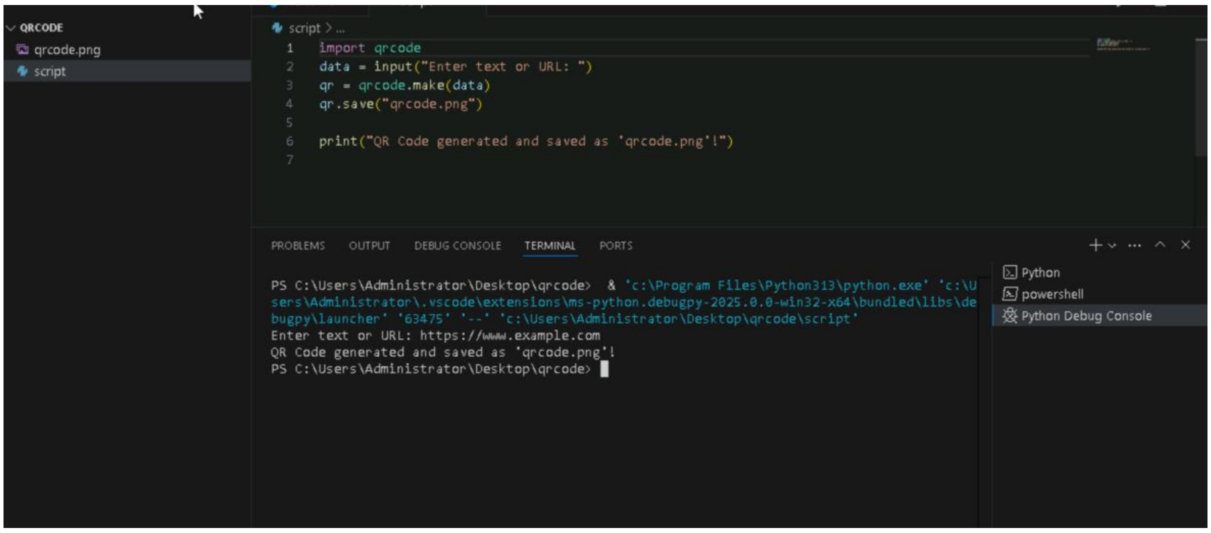
```
1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter choice: 1
Enter task: buy milk
Task added!

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

To-Do List:
1. buy milk
```



```python

    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.")
```

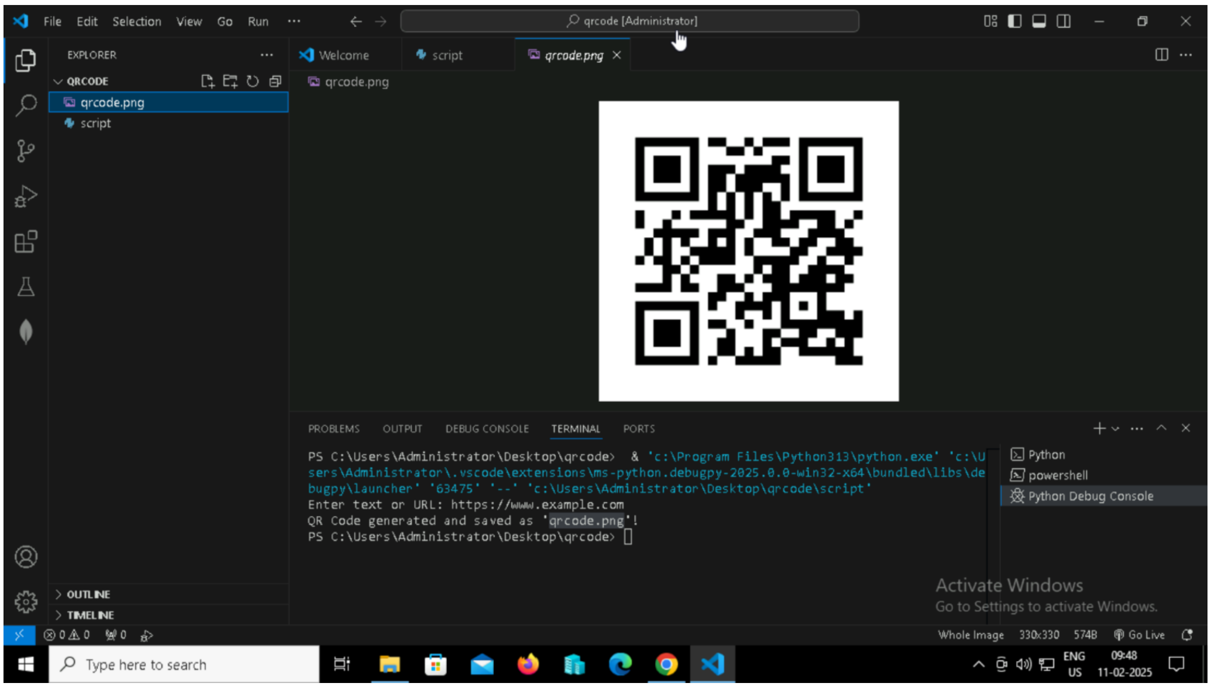
```
To-Do List:
1. buy milk

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

=== Code Execution Successful ===
```

QR Code Genarator Program



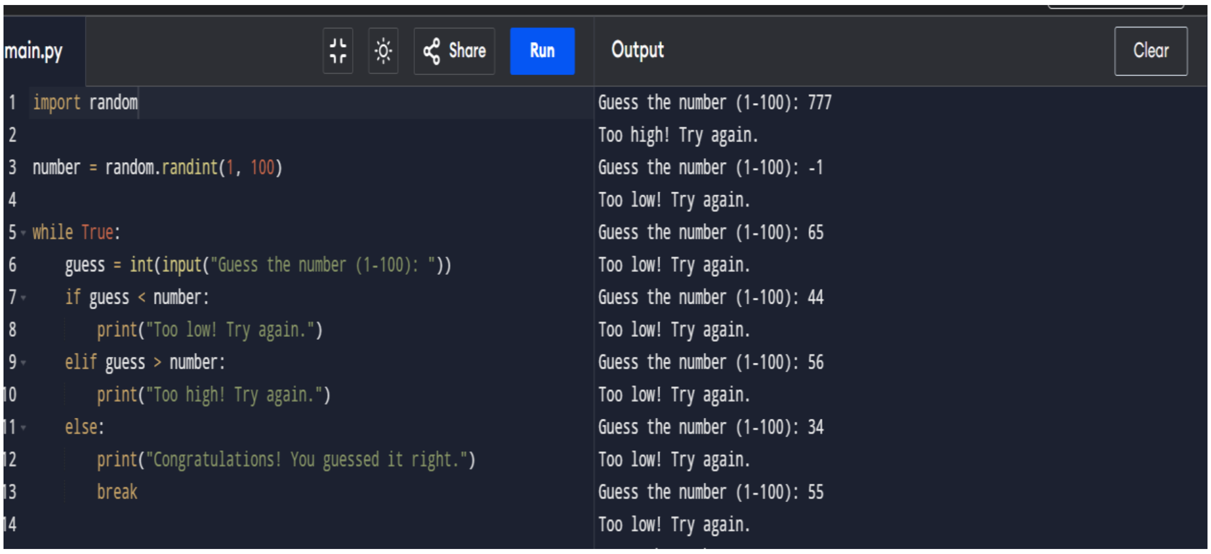
```python
import qrcode
data = input("Enter text or URL: ")
qr = qrcode.make(data)
qr.save("qrcode.png")

print("QR Code generated and saved as 'qrcode.png'!")

```

```
PS C:\Users\Administrator\Desktop\qrcode>  & 'c:\Program Files\Python313\python.exe' 'c:\U
sers\Administrator\.vscode\extensions\ms-python.debugpy-2025.0.0-win32-x64\bundled\libs\de
bugpy\launcher' '63475' '--' 'c:\Users\Administrator\Desktop\qrcode\script'
Enter text or URL: https://www.example.com
QR Code generated and saved as 'qrcode.png'!
PS C:\Users\Administrator\Desktop\qrcode>
```



```
PS C:\Users\Administrator\Desktop\qrcode>  & 'c:\Program Files\Python313\python.exe' 'c:\U
sers\Administrator\.vscode\extensions\ms-python.debugpy-2025.0.0-win32-x64\bundled\libs\de
bugpy\launcher' '63475' '--' 'c:\Users\Administrator\Desktop\qrcode\script'
Enter text or URL: https://www.example.com
QR Code generated and saved as 'qrcode.png'!
PS C:\Users\Administrator\Desktop\qrcode>
```

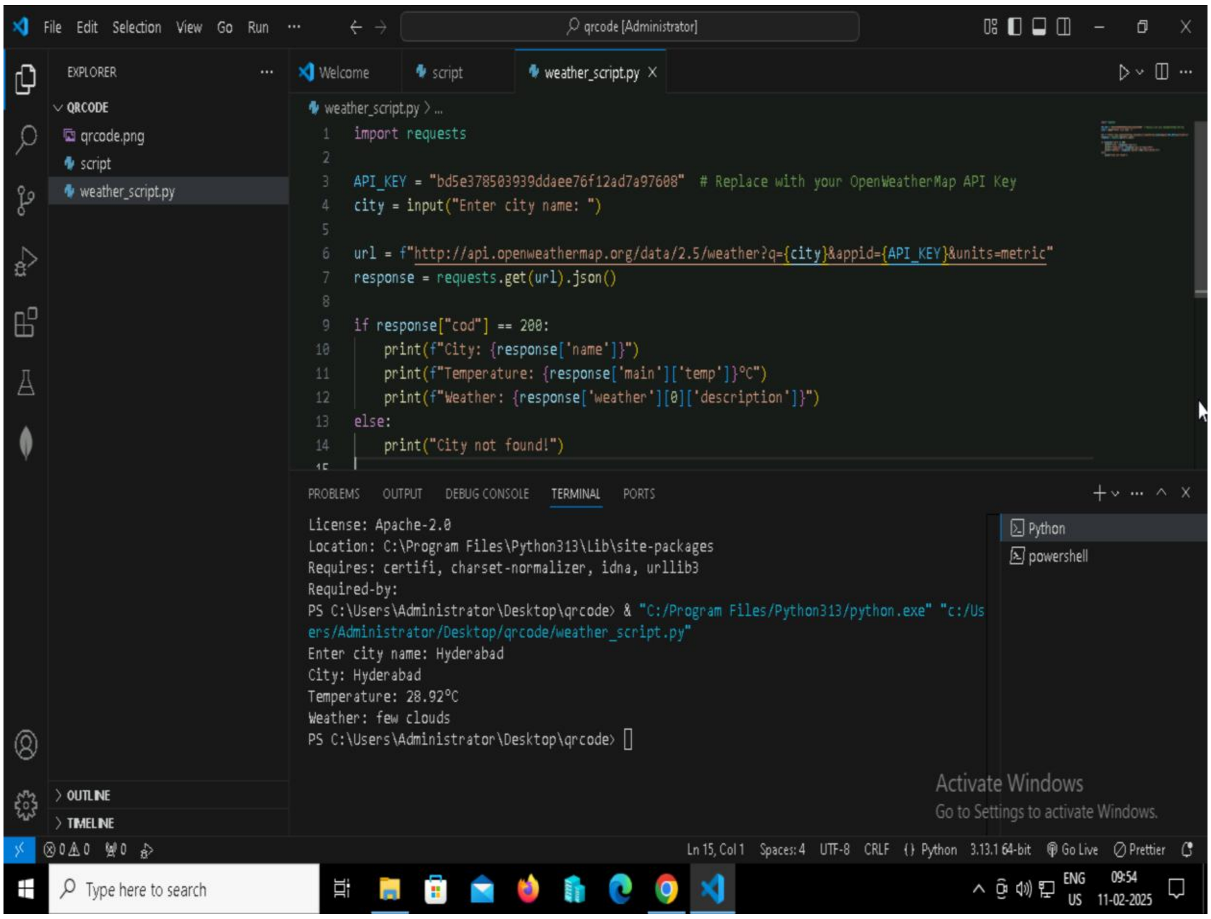
Number guessing game in python



```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

```

```
Guess the number (1-100): 777
Too high! Try again.
Guess the number (1-100): -1
Too low! Try again.
Guess the number (1-100): 65
Too low! Try again.
Guess the number (1-100): 44
Too low! Try again.
Guess the number (1-100): 56
Too low! Try again.
Guess the number (1-100): 34
Too low! Try again.
Guess the number (1-100): 55
Too low! Try again.
```

Weather App (API-based)



```python
import requests

API_KEY = "bd5e378503939ddaee76f12ad7a97608"  # Replace with your OpenWeatherMap API Key
city = input("Enter city name: ")

url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={API_KEY}&units=metric"
response = requests.get(url).json()

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!")
```

```
License: Apache-2.0
Location: C:\Program Files\Python313\Lib\site-packages
Requires: certifi, charset-normalizer, idna, urllib3
Required-by:
PS C:\Users\Administrator\Desktop\qrcode> & "C:/Program Files/Python313/python.exe" "c:/Us
ers/Administrator/Desktop/qrcode/weather_script.py"
Enter city name: Hyderabad
City: Hyderabad
Temperature: 28.92°C
Weather: few clouds
PS C:\Users\Administrator\Desktop\qrcode> 
```