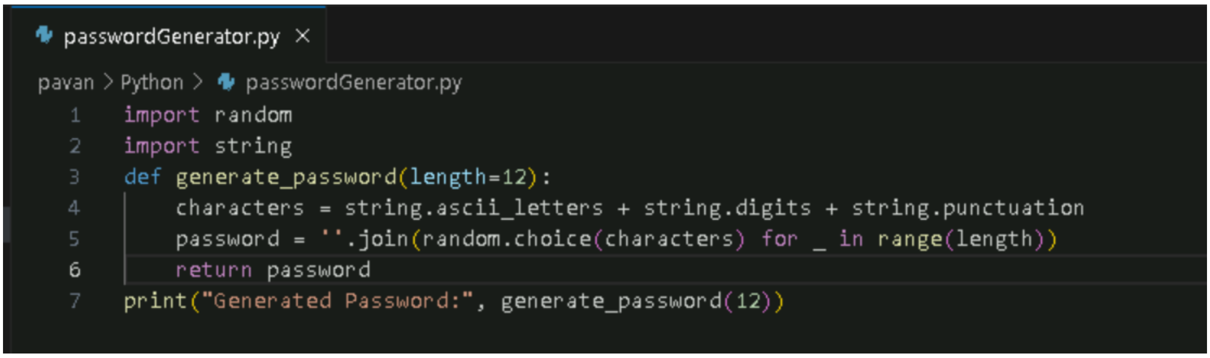
Thumati Pavan Venkata Narendra Kumar

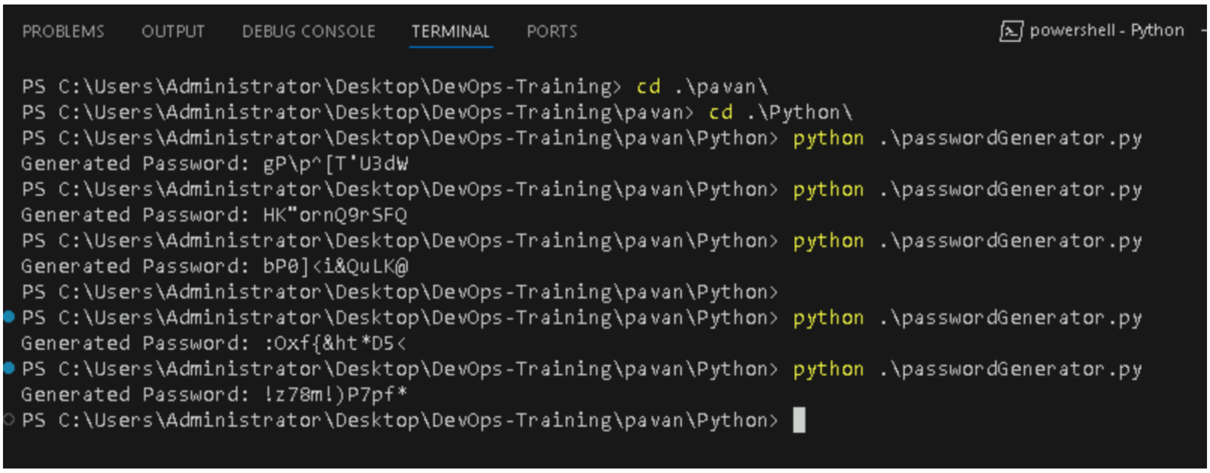
EMP-ID-289219

PYTHON-PROJECT-2

1. Password Generator.

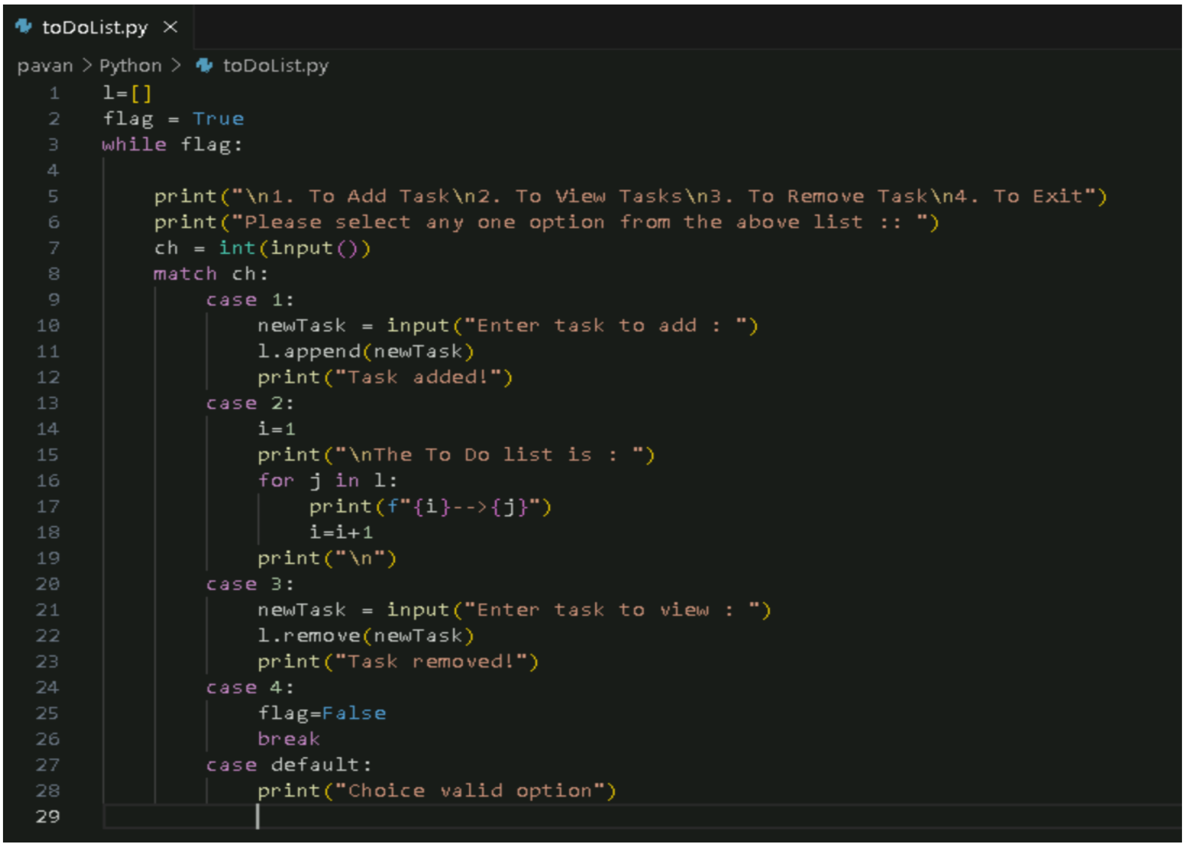


```python
import random
import string
def generate_password(length=12):
    characters = string.ascii_letters + string.digits + string.punctuation
    password = ''.join(random.choice(characters) for _ in range(length))
    return password
print("Generated Password:", generate_password(12))
```

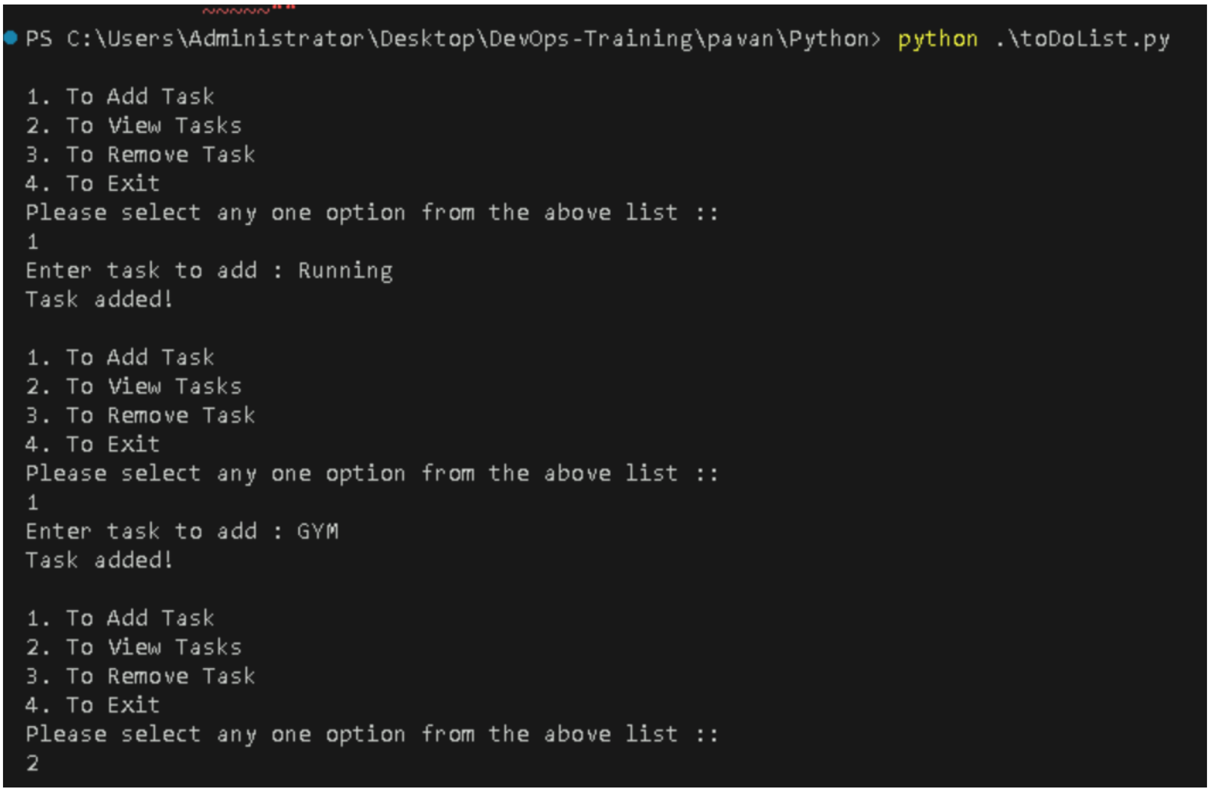


```
PS C:\Users\Administrator\Desktop\DevOps-Training> cd .\pavan\
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan> cd .\Python\
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\passwordGenerator.py
Generated Password: gP\p^[T'U3dW
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\passwordGenerator.py
Generated Password: HK"ornQ9rSFQ
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\passwordGenerator.py
Generated Password: bP0]<i&QuLK@
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python>
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\passwordGenerator.py
Generated Password: :Oxf{&ht*D5<
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\passwordGenerator.py
Generated Password: !z78m!)P7pf*
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python>
```

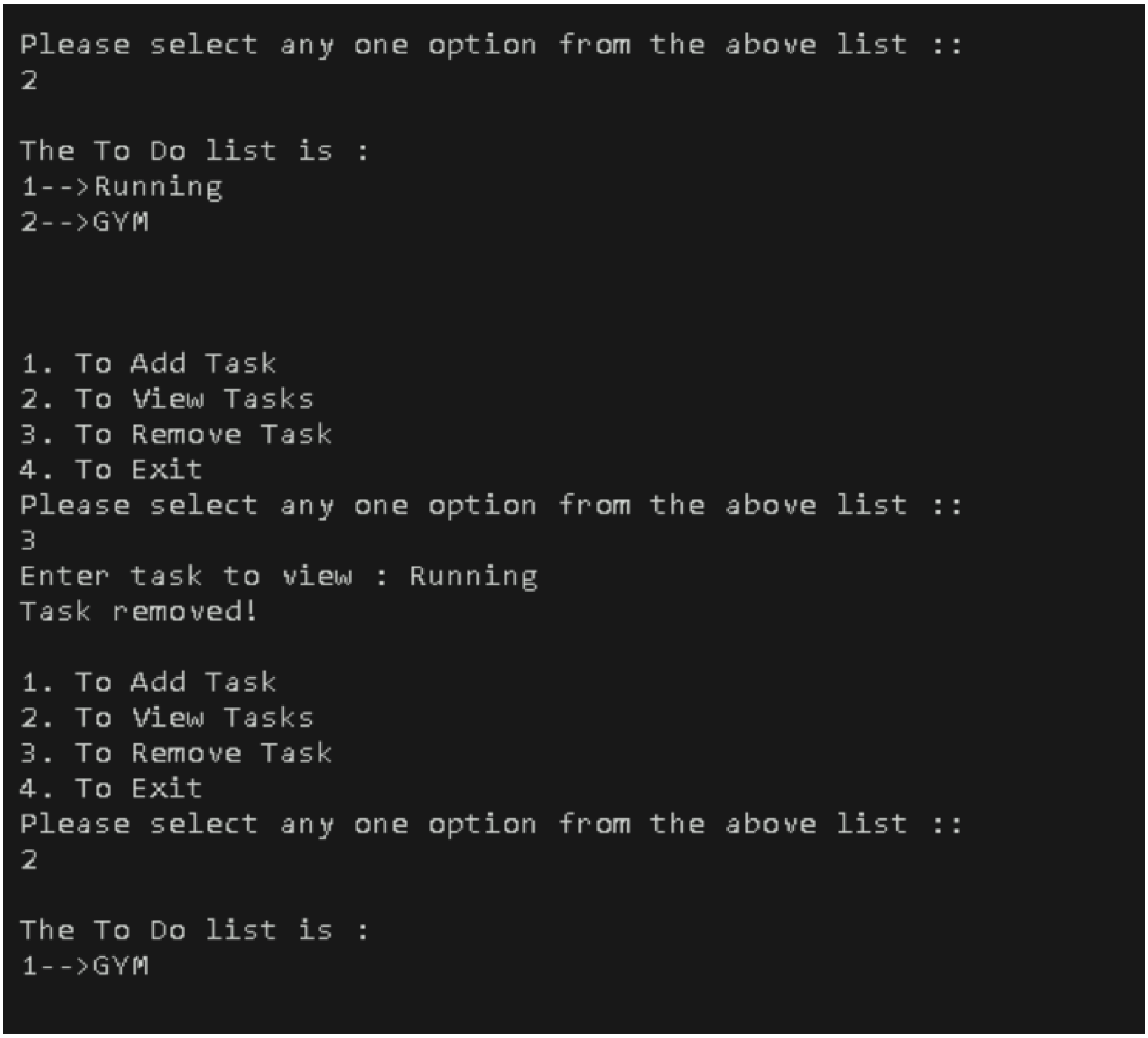
2. To-Do List (CLI).



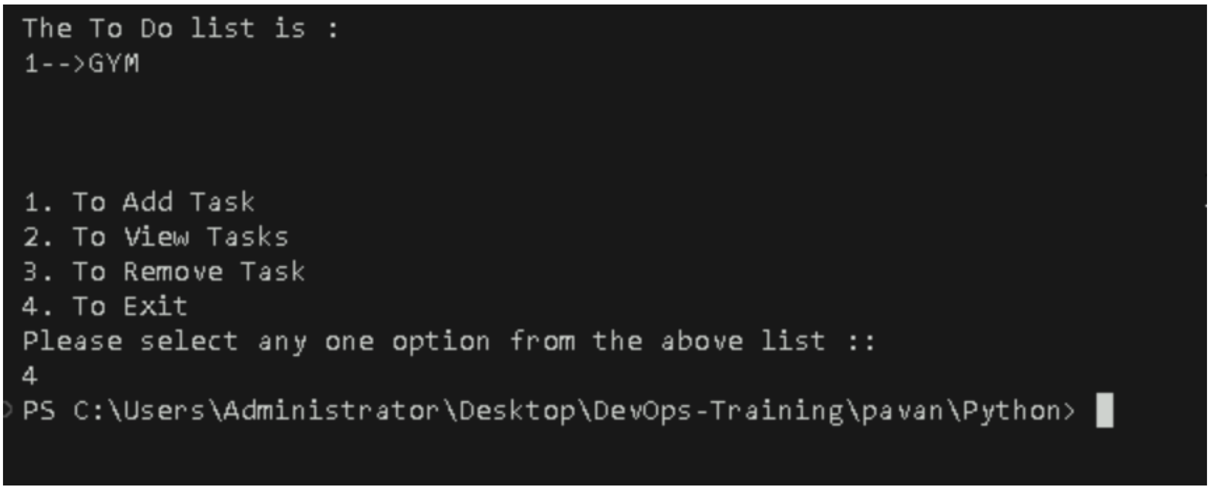
```python
l=[]
flag = True
while flag:

    print("\n1. To Add Task\n2. To View Tasks\n3. To Remove Task\n4. To Exit")
    print("Please select any one option from the above list :: ")
    ch = int(input())
    match ch:
        case 1:
            newTask = input("Enter task to add : ")
            l.append(newTask)
            print("Task added!")
        case 2:
            i=1
            print("\nThe To Do list is : ")
            for j in l:
                print(f"{i}-->{j}")
                i=i+1
            print("\n")
        case 3:
            newTask = input("Enter task to view : ")
            l.remove(newTask)
            print("Task removed!")
        case 4:
            flag=False
            break
        case default:
            print("Choice valid option")
            
```



```
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\toDoList.py

1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
1
Enter task to add : Running
Task added!

1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
1
Enter task to add : GYM
Task added!

1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
2
```

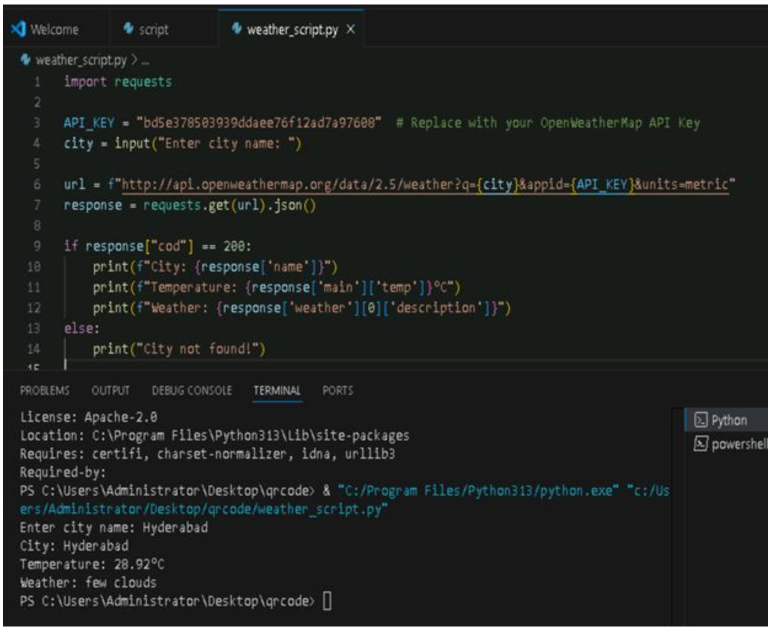


```
Please select any one option from the above list ::
2

The To Do list is :
1-->Running
2-->GYM



1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
3
Enter task to view : Running
Task removed!

1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
2

The To Do list is :
1-->GYM
```



```
The To Do list is :
1-->GYM



1. To Add Task
2. To View Tasks
3. To Remove Task
4. To Exit
Please select any one option from the above list ::
4
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python>
```

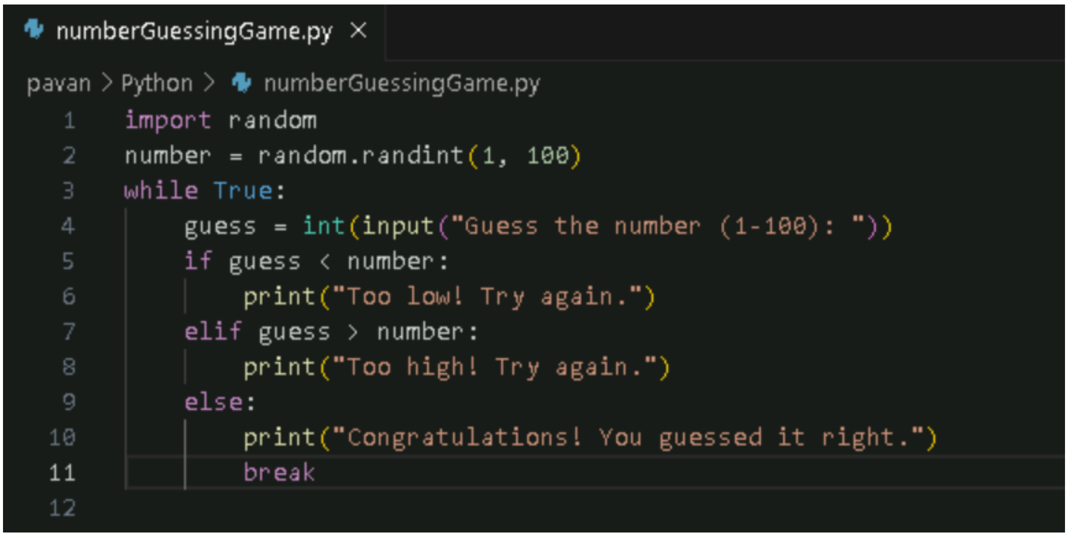
3. Weather App (API-based).



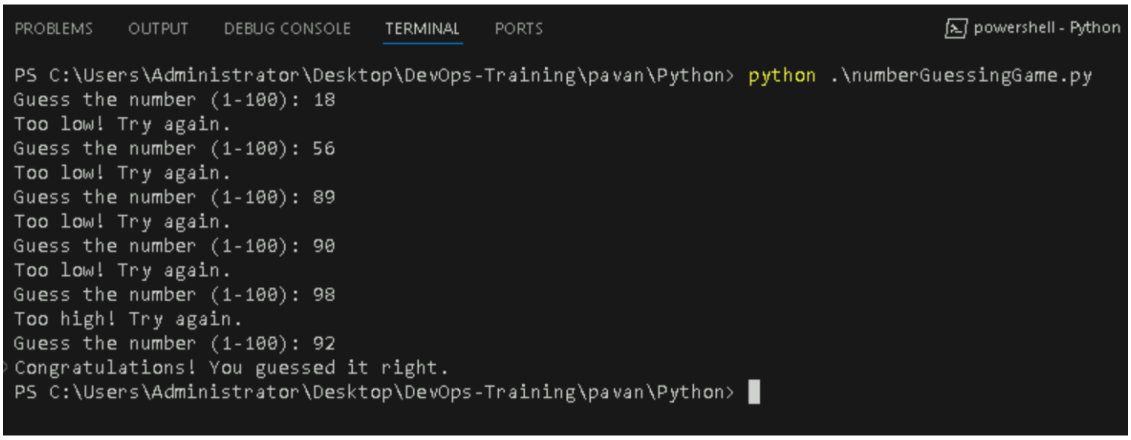
```python
import requests

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> 
```

4. Number Guessing Game.

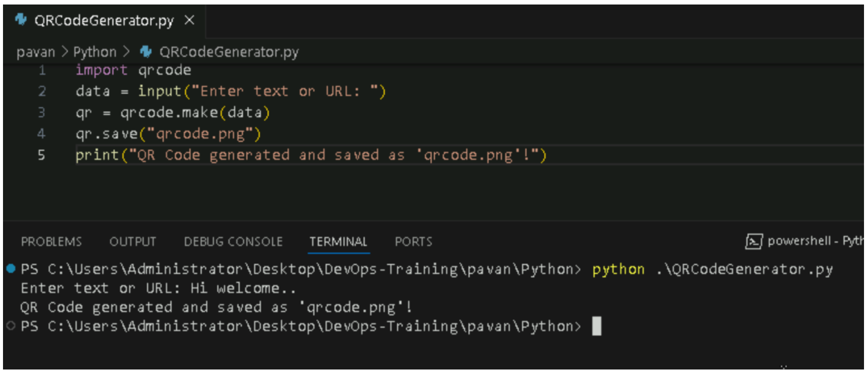


```python
import random
number = random.randint(1, 100)
while True:
    guess = int(input("Guess the number (1-100): "))
    if guess < number:
        print("Too low! Try again.")
    elif guess > number:
        print("Too high! Try again.")
    else:
        print("Congratulations! You guessed it right.")
        break
```



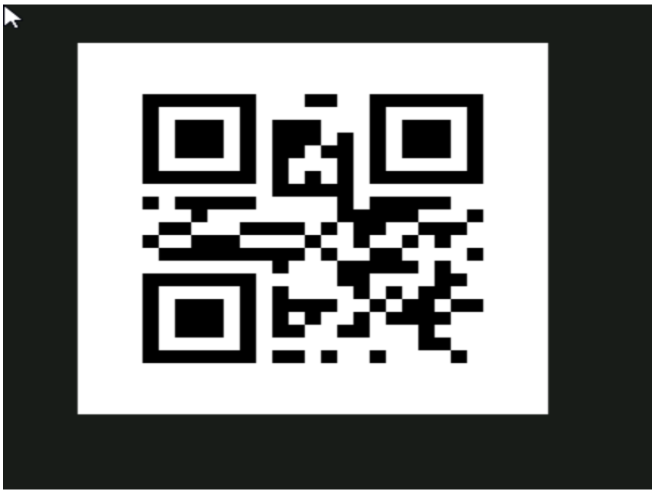
```
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python> python .\numberGuessingGame.py
Guess the number (1-100): 18
Too low! Try again.
Guess the number (1-100): 56
Too low! Try again.
Guess the number (1-100): 89
Too low! Try again.
Guess the number (1-100): 90
Too low! Try again.
Guess the number (1-100): 98
Too high! Try again.
Guess the number (1-100): 92
Congratulations! You guessed it right.
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python>
```

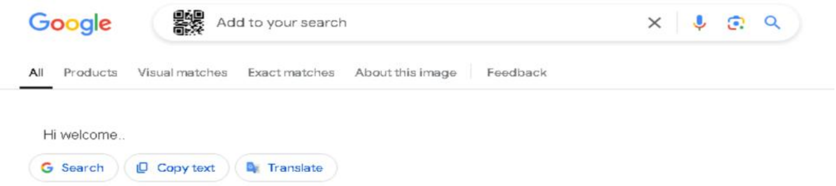
5. QR Code Generator.



```
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\DevOps-Training\pavan\Python> python .\QRCodeGenerator.py
Enter text or URL: Hi welcome..
QR Code generated and saved as 'qrcode.png'!
PS C:\Users\Administrator\Desktop\DevOps-Training\pavan\Python>
```





Hi welcome..