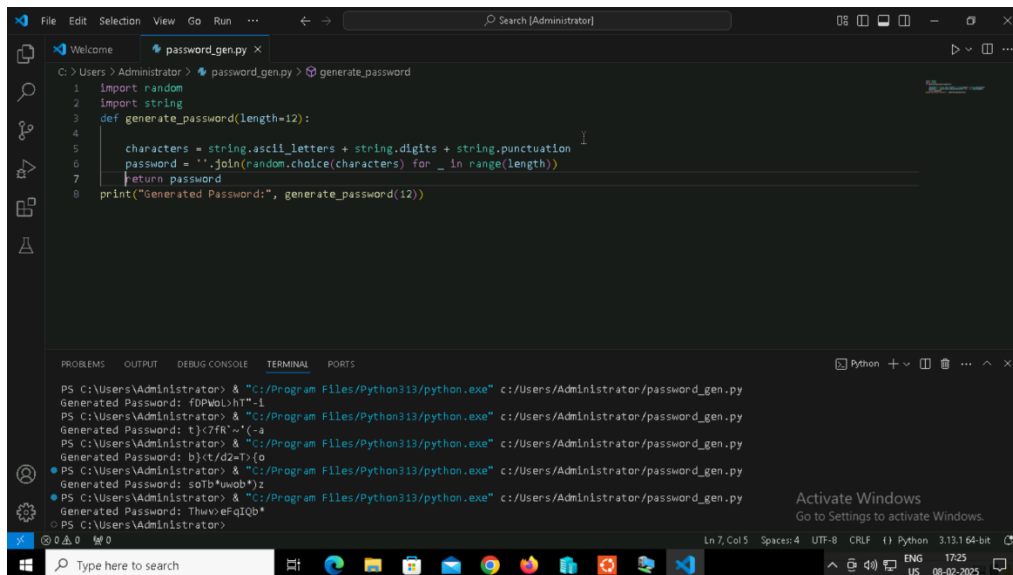


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PYTHON BASIC PROJECTS

1. Password generator



The screenshot shows a Python IDE with a file named `password_gen.py` open. The code defines a function `generate_password` that takes a length parameter and returns a random password of that length. The password is generated by joining random choices from a set of characters (letters, digits, and punctuation). The terminal shows the output of the script, displaying several generated passwords.

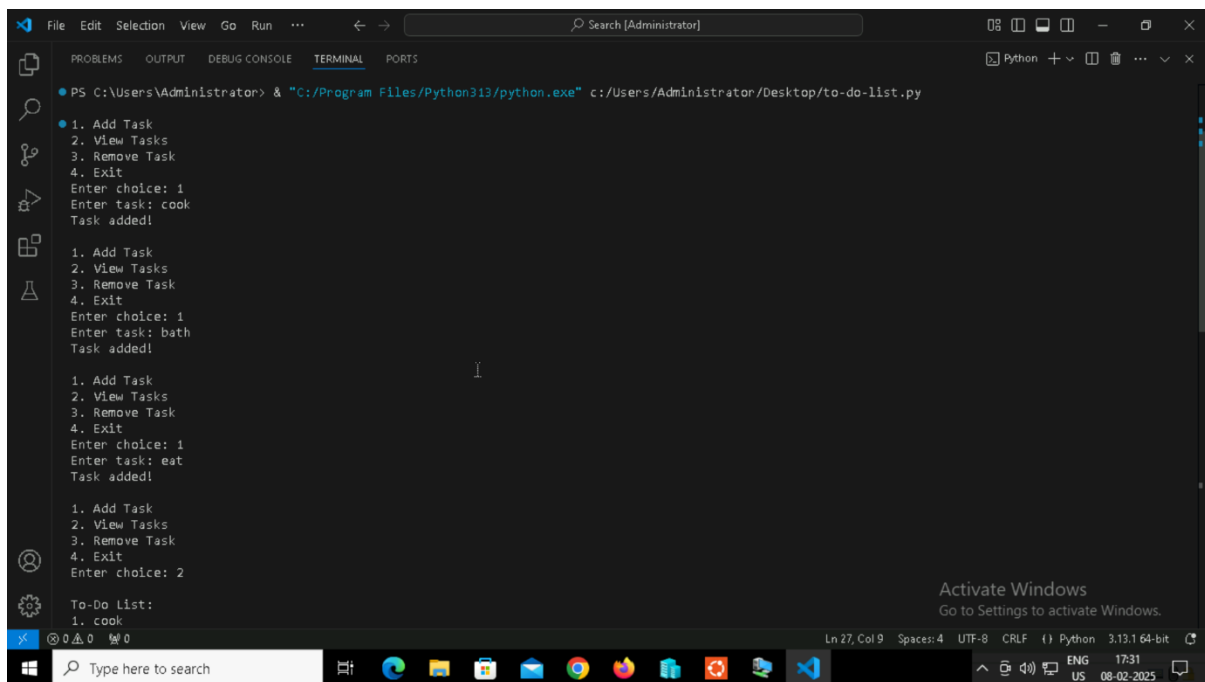
```
File Edit Selection View Go Run ... Search [Administrator]
Welcome password_gen.py x
C:\Users\Administrator> password_gen.py > generate_password
1 import random
2 import string
3 def generate_password(length=12):
4
5     characters = string.ascii_letters + string.digits + string.punctuation
6     password = ''.join(random.choice(characters) for _ in range(length))
7     return password
8 print("Generated Password:", generate_password(12))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python + - x
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/password_gen.py
Generated Password: fDPWol>hT"-1
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/password_gen.py
Generated Password: t)<7FR~"(-a
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/password_gen.py
Generated Password: b)<t/d2>{o
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/password_gen.py
Generated Password: soTB^uwb*)z
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/password_gen.py
Generated Password: Thwv>eFqIQb*
PS C:\Users\Administrator>

Activate Windows
Go to Settings to activate Windows.
Ln 7, Col 5 Spaces: 4 UTF-8 CRLF Python 3.13.1 64-bit
ENG 17:25
US 06-02-2025
```

2. To do list

```
Welcome | password_gen.py | to-do-list.py X
C: > Users > Administrator > Desktop > to-do-list.py > ...
1 tasks = []
2
3 while True:
4     print("\n1. Add Task\n2. View Tasks\n3. Remove Task\n4. Exit")
5     choice = input("Enter choice: ")
6
7     if choice == "1":
8         task = input("Enter task: ")
9         tasks.append(task)
10        print("Task added!")
11
12    elif choice == "2":
13        print("\nTo-Do List:")
14        for idx, task in enumerate(tasks, 1):
15            print(f"{idx}. {task}")
16
17    elif choice == "3":
18        task_num = int(input("Enter task number to remove: "))
19        if 0 < task_num <= len(tasks):
20            tasks.pop(task_num - 1)
21            print("Task removed!")
22
23    elif choice == "4":
24        break
25
26    else:
27        print("Invalid choice. Try again.")
```



```
4. Exit
Enter choice: 2

To-Do List:
1. cook
2. bath
3. eat

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

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

To-Do List:
1. cook
2. eat

1. Add Task
2. View Tasks
3. Remove Task
4. Exit
Enter choice: 4
PS C:\Users\Administrator> █
```

3. Weather app

```
weather_script.py > ...
1 import requests
2
3 API_KEY = "bd5e378503939ddae76f12ad7a976088" # Replace with your OpenWeatherMap API Key
4 city = input("Enter city name: ")
5
6 url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={API_KEY}&units=metric"
7 response = requests.get(url).json()
8
9 if response["cod"] == 200:
10     print(f"City: {response['name']}")
11     print(f"Temperature: {response['main']['temp']}°C")
12     print(f"Weather: {response['weather'][0]['description']}")
13 else:
14     print("City not found!")
15
```

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:/Users/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

```
File Edit Selection View Go Run ...
number_guessing_game.py x
C:\Users\Administrator\Desktop> number_guessing_game.py > ...
1 import random
2 number = random.randint(1, 100)
3
4 while True:
5     guess = int(input("Guess the number (1-100): "))
6     if guess < number:
7         print("Too low! Try again.")
8     elif guess > number:
9         print("Too high! Try again.")
10    else:
11        print("Congratulations! You guessed it right.")
12        break
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/Desktop/number_guessing_game.py
Guess the number (1-100): 69
Too high! Try again.
Guess the number (1-100): 10
Too high! Try again.
Guess the number (1-100): 5
Too low! Try again.
Guess the number (1-100): 7
Congratulations! You guessed it right.
PS C:\Users\Administrator>

Activate Windows
Go to Settings to activate Windows.

Ln 5, Col 53 Spaces: 4 UTF-8 CRLF Python 3.13.1 64-bit

5. Qr code

```
File Edit Selection View Go Run ... Search [Administrator]
Welcome qrgenerator.py 1 x
C:\Users\Administrator\Desktop> qrgenerator.py > ...
1 import qrcode
2
3 data = input("Enter text or URL: ")
4 qr = qrcode.make(data)
5 qr.save("qrcode.png")
6 print("QR Code generated and saved as 'qrcode.png'!")

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - - - - x
>>
Collecting qrcode[pil]
  Downloading qrcode-8.0-py3-none-any.whl.metadata (17 kB)
Collecting colorama (from qrcode[pil])
  Downloading colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Collecting pillow>=9.1.0 (from qrcode[pil])
  Downloading pillow-11.1.0-cp313-cp313-win_amd64.whl.metadata (9.3 kB)
  2.6/2.6 MB 39.7 MB/s eta 0:00:00
Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Downloading qrcode-8.0-py3-none-any.whl (45 kB)
Installing collected packages: pillow, colorama, qrcode
Successfully installed colorama-0.4.6 pillow-11.1.0 qrcode-8.0

[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\Administrator> pip install qrcode[pil]
6)
Requirement already satisfied: pillow>=9.1.0 in c:\program files\python313\lib\site-packages (from qrcode[pil]) (11.1.0)

[notice] A new release of pip is available: 24.3.1 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Users\Administrator> & "C:/Program Files/Python313/python.exe" c:/Users/Administrator/Desktop/qrgenerator.py
Enter text or URL: Hello everyone . welcome to ust
QR Code generated and saved as 'qrcode.png'!
PS C:\Users\Administrator>

Activate Windows
Go to Settings to activate Windows.

Ln 5, Col 10 Spaces: 4 UTF-8 CRLF Python 3.13.1 64-bit
Type here to search
```





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