



Python

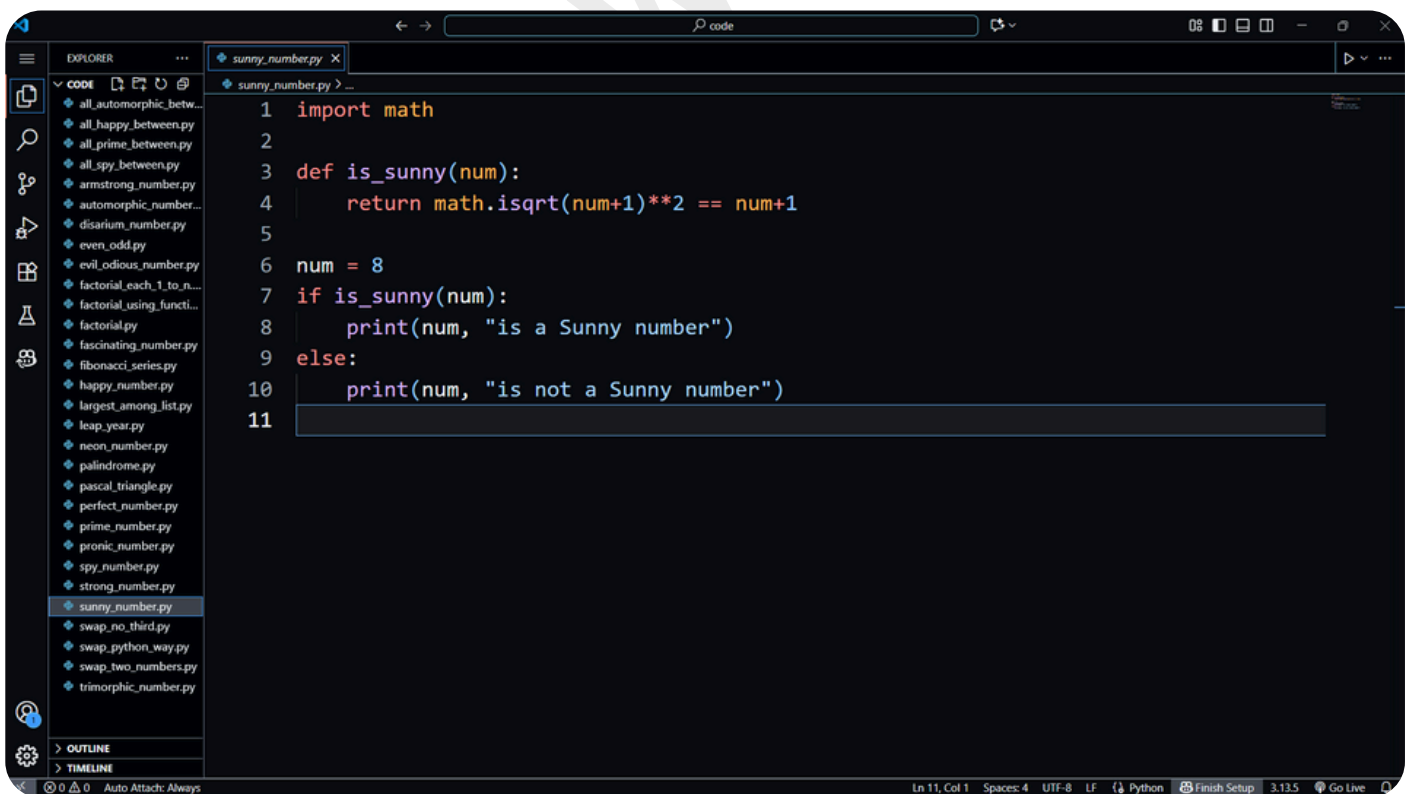
Problem

PYTHON PROGRAM

Python Problem

26. Sunny Number

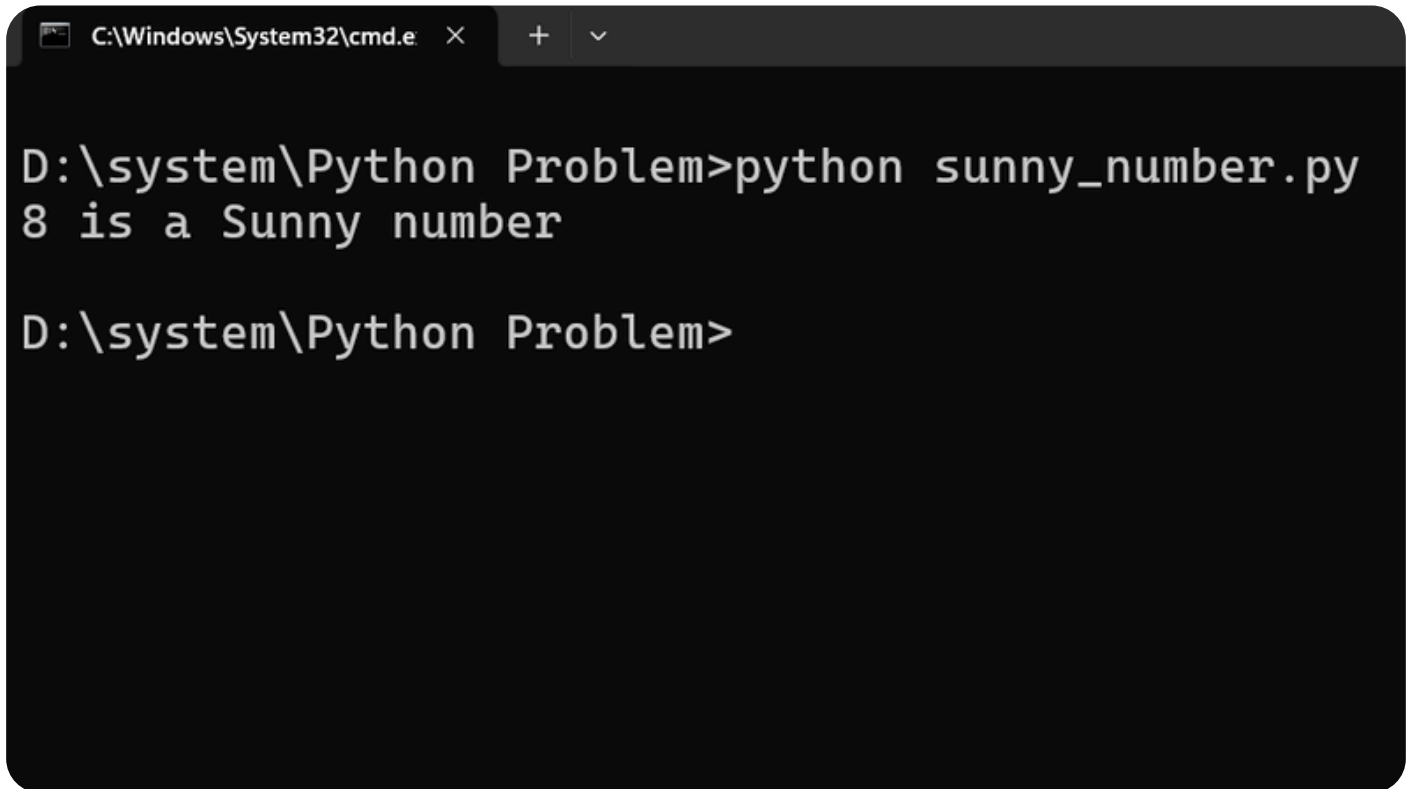
Code



```
1 import math
2
3 def is_sunny(num):
4     return math.isqrt(num+1)**2 == num+1
5
6 num = 8
7 if is_sunny(num):
8     print(num, "is a Sunny number")
9 else:
10    print(num, "is not a Sunny number")
11
```

The screenshot shows a code editor with a file explorer on the left. The file explorer lists various Python files, including 'sunny_number.py' which is currently selected. The code editor displays the Python code for checking if a number is a 'Sunny Number'. The code defines a function 'is_sunny' that takes a number 'num' and returns a boolean value based on the condition $\text{math.isqrt}(\text{num}+1)^2 == \text{num}+1$. The main part of the code sets 'num' to 8 and uses an if-else statement to print whether 'num' is a 'Sunny number' or not.

Output



A screenshot of a Windows command prompt window. The title bar at the top shows the file path 'C:\Windows\System32\cmd.e' and standard window controls. The command prompt itself has a black background with white text. The first line shows the command 'python sunny_number.py' being executed from the directory 'D:\system\Python Problem'. The second line shows the output of the script: '8 is a Sunny number'. The third line shows the command prompt returning to the 'D:\system\Python Problem' directory.

```
C:\Windows\System32\cmd.e × + ▾  
  
D:\system\Python Problem>python sunny_number.py  
8 is a Sunny number  
  
D:\system\Python Problem>
```

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