



Python

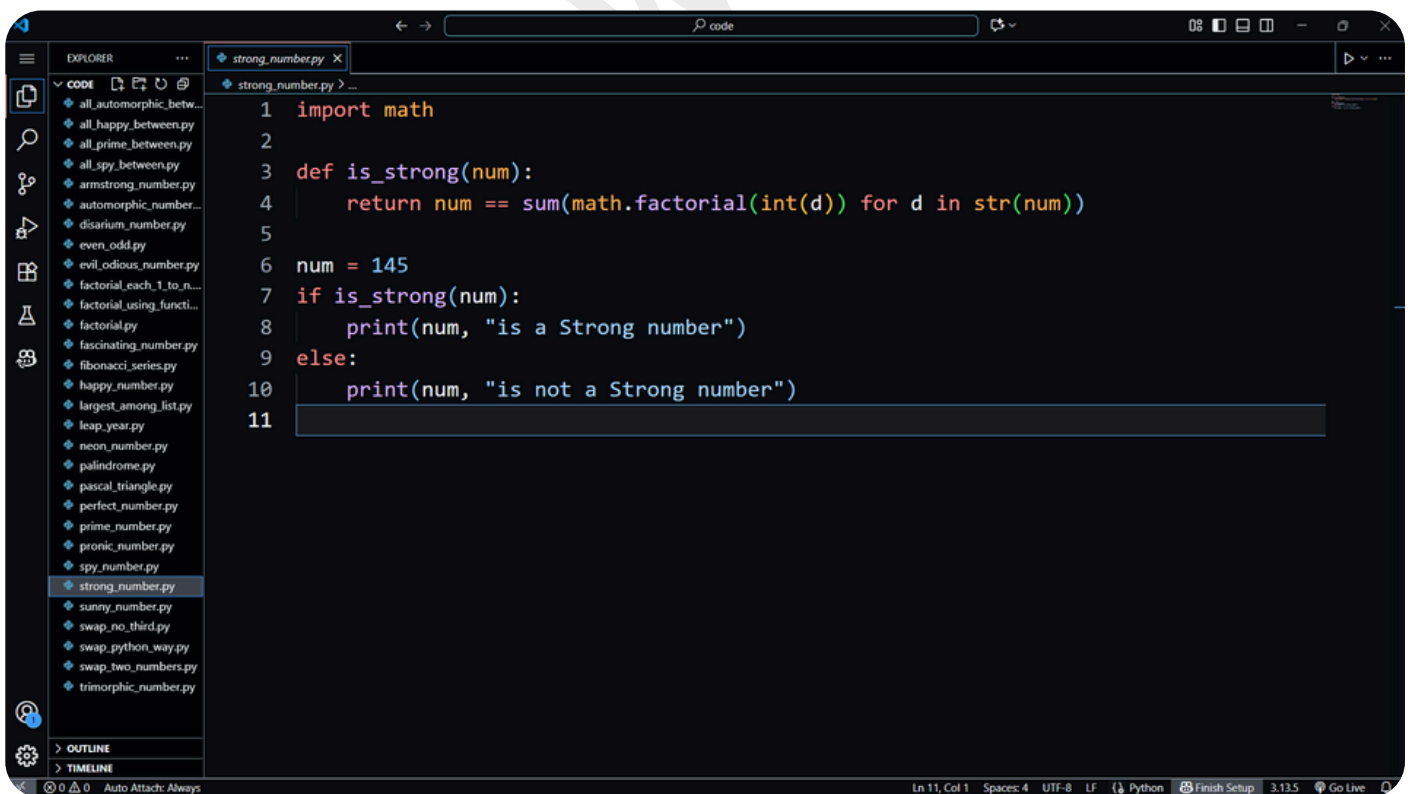
Problem

PYTHON PROGRAM

Python Problem

25. Strong Number

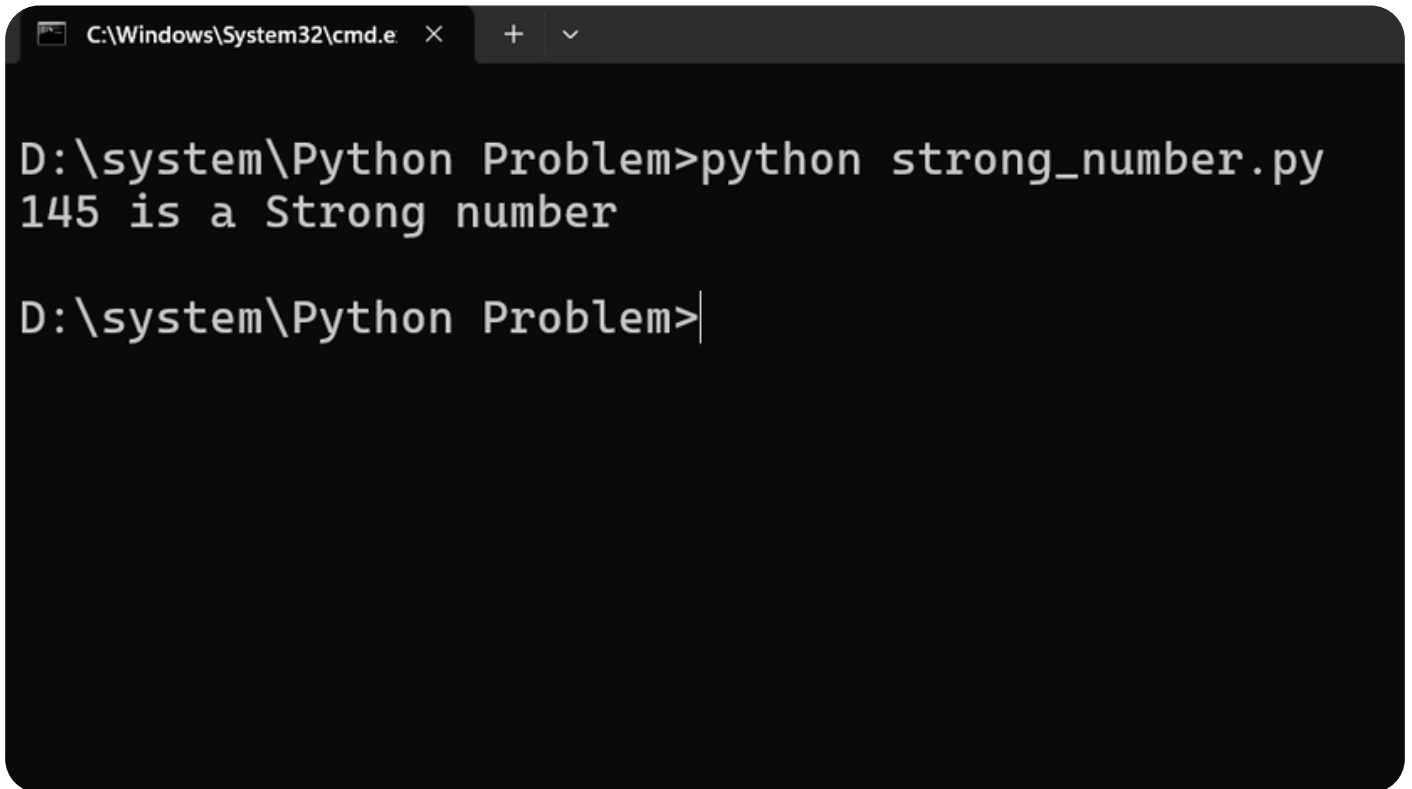
Code



```
1 import math
2
3 def is_strong(num):
4     return num == sum(math.factorial(int(d)) for d in str(num))
5
6 num = 145
7 if is_strong(num):
8     print(num, "is a Strong number")
9 else:
10    print(num, "is not a Strong number")
11
```

The screenshot shows a code editor with a file explorer on the left. The file explorer lists various Python files, including 'strong_number.py'. The main editor window displays the Python code for checking if a number is a Strong Number. The code defines a function 'is_strong' that takes a number 'num' and returns True if the sum of the factorials of its digits equals the number itself. The number 145 is used as an example, and the program prints '145 is a Strong number'.

Output



A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\System32\cmd.e' and standard window controls. The command prompt shows the directory 'D:\system\Python Problem' and the command 'python strong_number.py'. The output of the command is '145 is a Strong number'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.e × + v  
  
D:\system\Python Problem>python strong_number.py  
145 is a Strong number  
  
D:\system\Python Problem>|
```

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