



Python

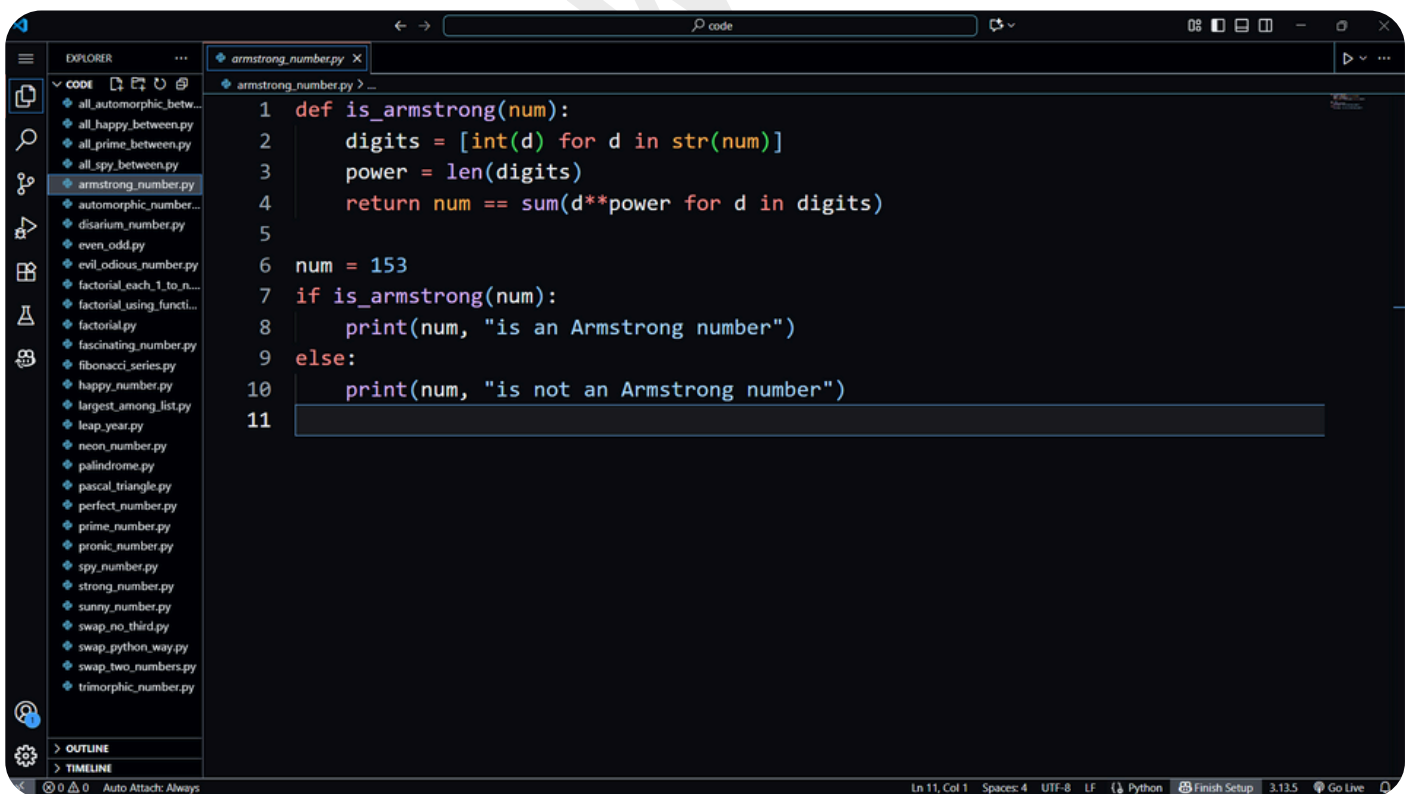
Problem

PYTHON PROGRAM

Python Problem

5. Armstrong Number

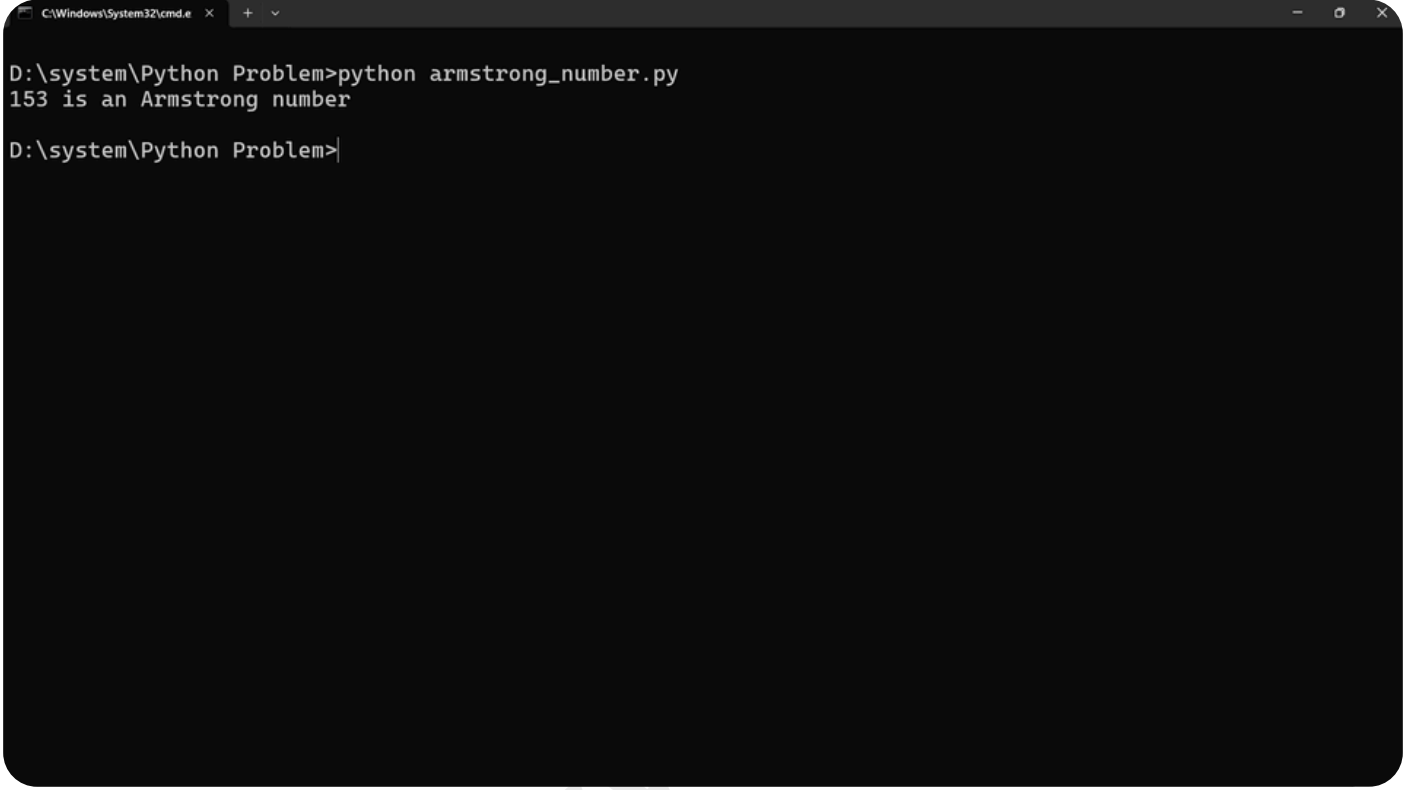
Code



```
1 def is_armstrong(num):
2     digits = [int(d) for d in str(num)]
3     power = len(digits)
4     return num == sum(d**power for d in digits)
5
6 num = 153
7 if is_armstrong(num):
8     print(num, "is an Armstrong number")
9 else:
10    print(num, "is not an Armstrong number")
11
```

The screenshot shows a code editor with a file explorer on the left. The file explorer lists various Python files, including 'armstrong_number.py'. The main editor window displays the code for the 'is_armstrong' function, which checks if a number is an Armstrong number by comparing the number to the sum of its digits raised to the power of the number of digits. The code is written in Python and includes comments for each step.

Output



A screenshot of a Windows command prompt window. The title bar shows 'C:\Windows\System32\cmd.exe' and standard window controls. The command prompt shows the directory 'D:\system\Python Problem' and the command 'python armstrong_number.py' being executed. The output is '153 is an Armstrong number'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.exe
D:\system\Python Problem>python armstrong_number.py
153 is an Armstrong number
D:\system\Python Problem>
```



Thank you !
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