



Python

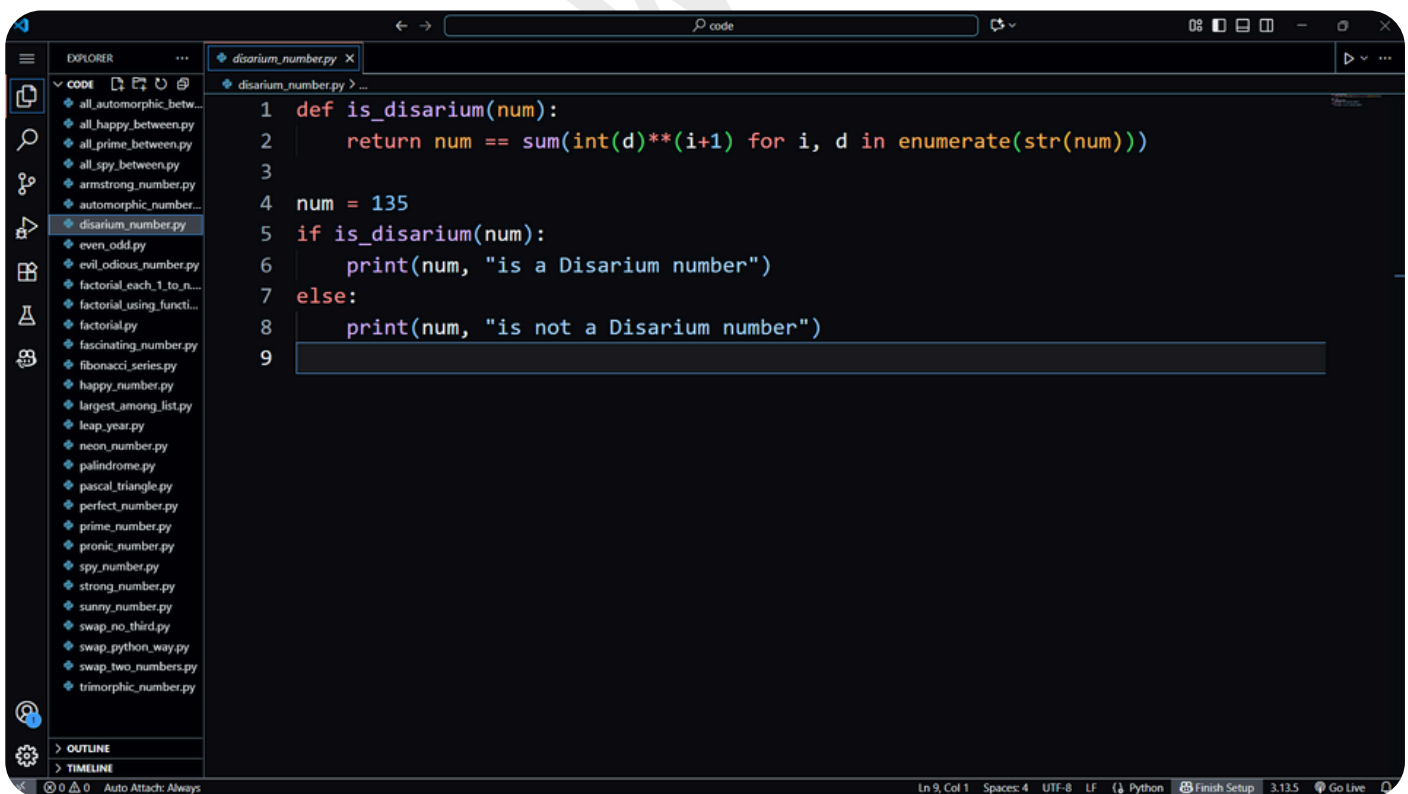
Problem

PYTHON PROGRAM

Python Problem

7. Disarium Number

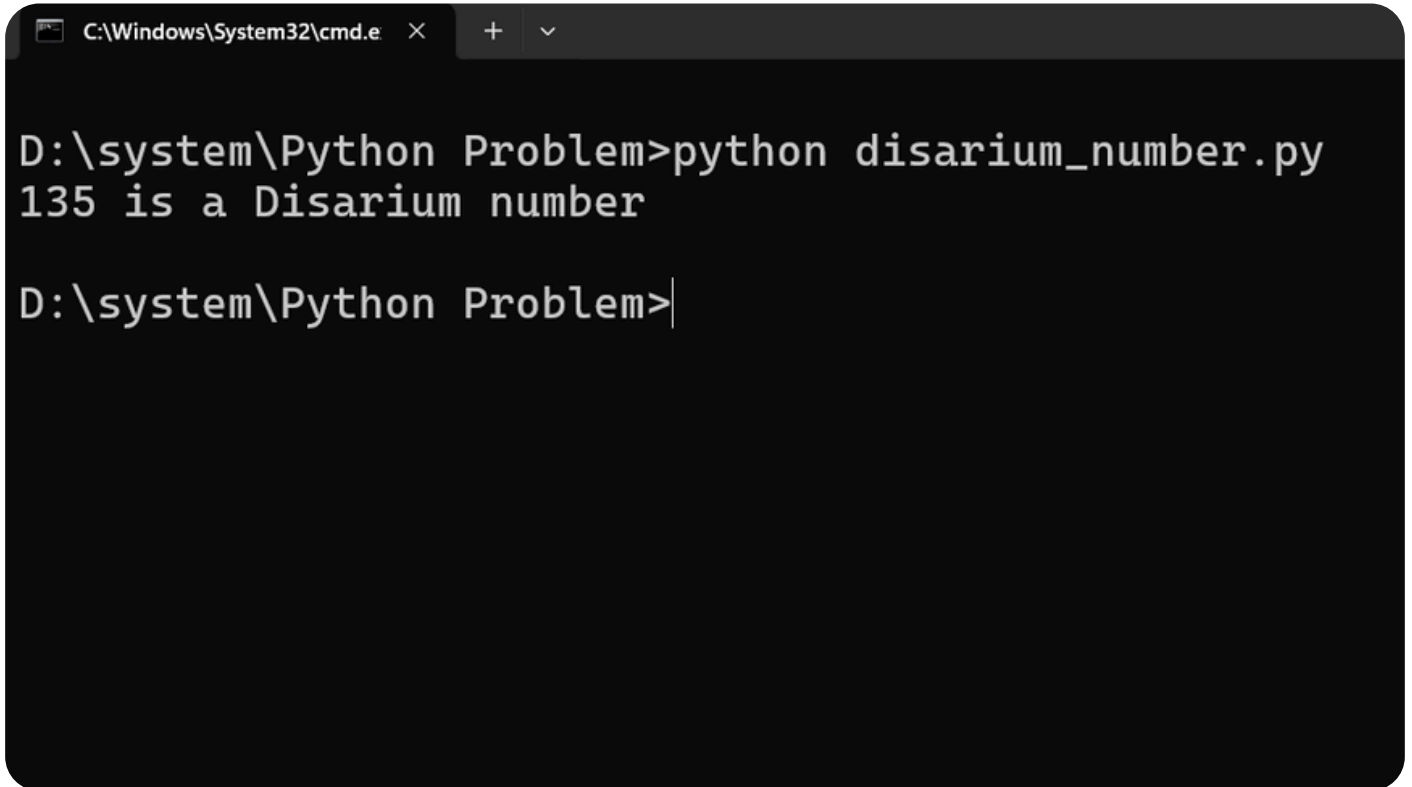
Code



```
1 def is_disarium(num):
2     return num == sum(int(d)**(i+1) for i, d in enumerate(str(num)))
3
4 num = 135
5 if is_disarium(num):
6     print(num, "is a Disarium number")
7 else:
8     print(num, "is not a Disarium number")
9
```

The screenshot shows a code editor with a file explorer on the left. The file explorer lists various Python files, including 'disarium_number.py'. The main editor window displays the Python code for checking a Disarium number. The code defines a function 'is_disarium' that takes a number 'num' and returns a boolean value based on whether the sum of each digit raised to the power of its position (starting from 1) equals the original number. The code then sets 'num' to 135 and uses an if-else statement to print the result.

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 disarium_number.py'. The output of the command is '135 is a Disarium number'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.e X + v  
D:\system\Python Problem>python disarium_number.py  
135 is a Disarium number  
D:\system\Python Problem>|
```

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