



Python

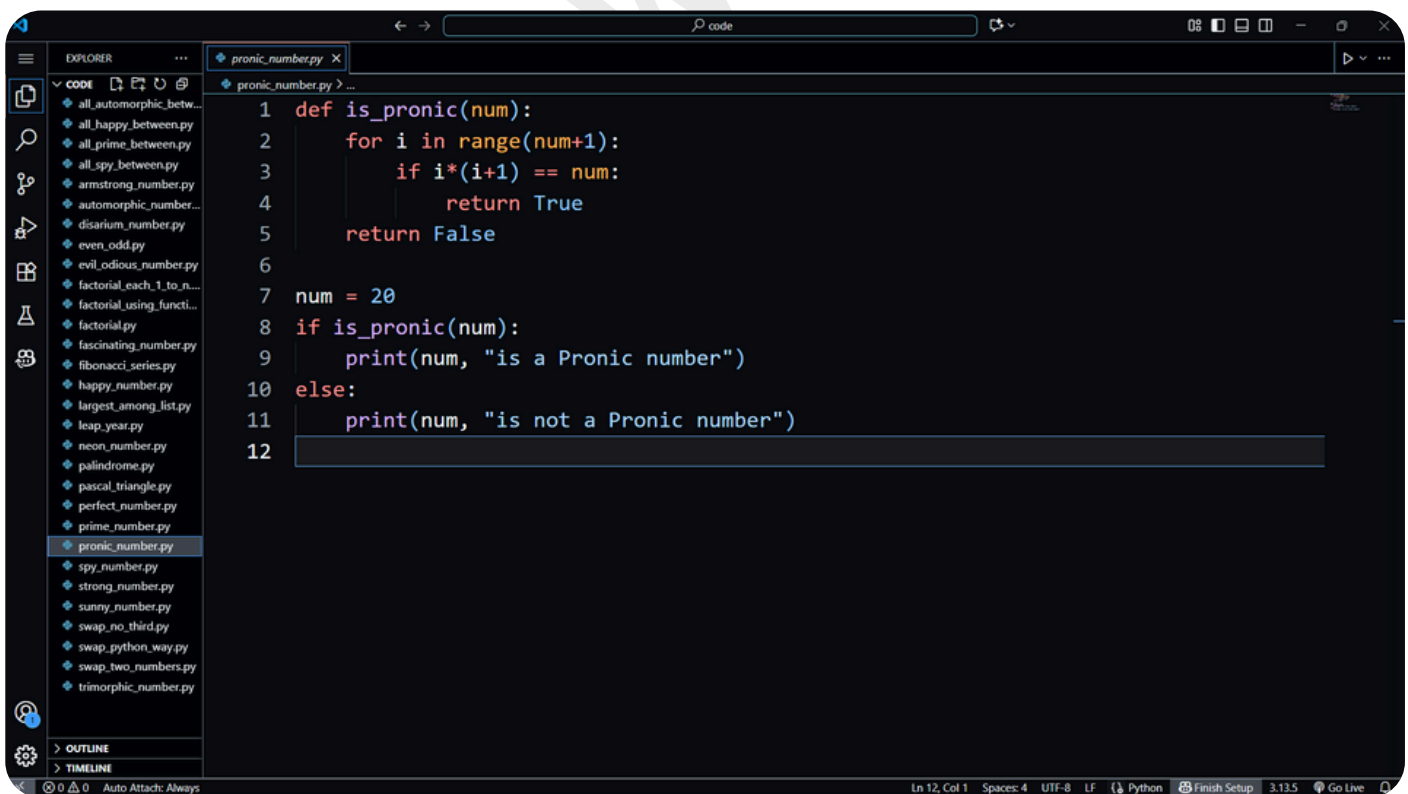
Problem

PYTHON PROGRAM

Python Problem

23. Pronic Number

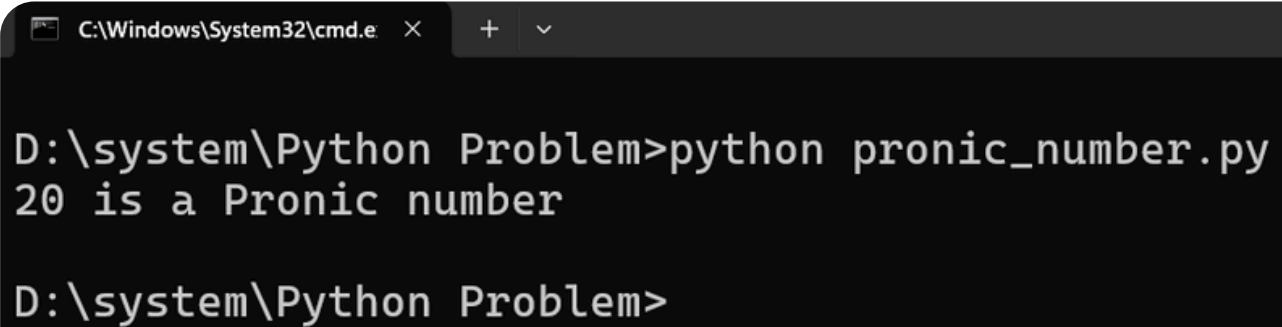
Code



```
1 def is_pronic(num):
2     for i in range(num+1):
3         if i*(i+1) == num:
4             return True
5     return False
6
7 num = 20
8 if is_pronic(num):
9     print(num, "is a Pronic number")
10 else:
11     print(num, "is not a Pronic number")
12
```

The screenshot shows a code editor with a file explorer on the left containing various Python files related to number theory. The main editor window displays a Python function `is_pronic(num)` that checks if a number is a Pronic number by iterating from 1 to `num+1` and checking if `i*(i+1)` equals `num`. The number 20 is used as an example, and the program prints "20 is a Pronic 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 pronic_number.py' being executed. The output of the command is '20 is a Pronic number'. The prompt then returns to 'D:\system\Python Problem>'.

```
C:\Windows\System32\cmd.e × + ∨  
  
D:\system\Python Problem>python pronic_number.py  
20 is a Pronic number  
  
D:\system\Python Problem>
```



Thank you !
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