



# Python

# Problem

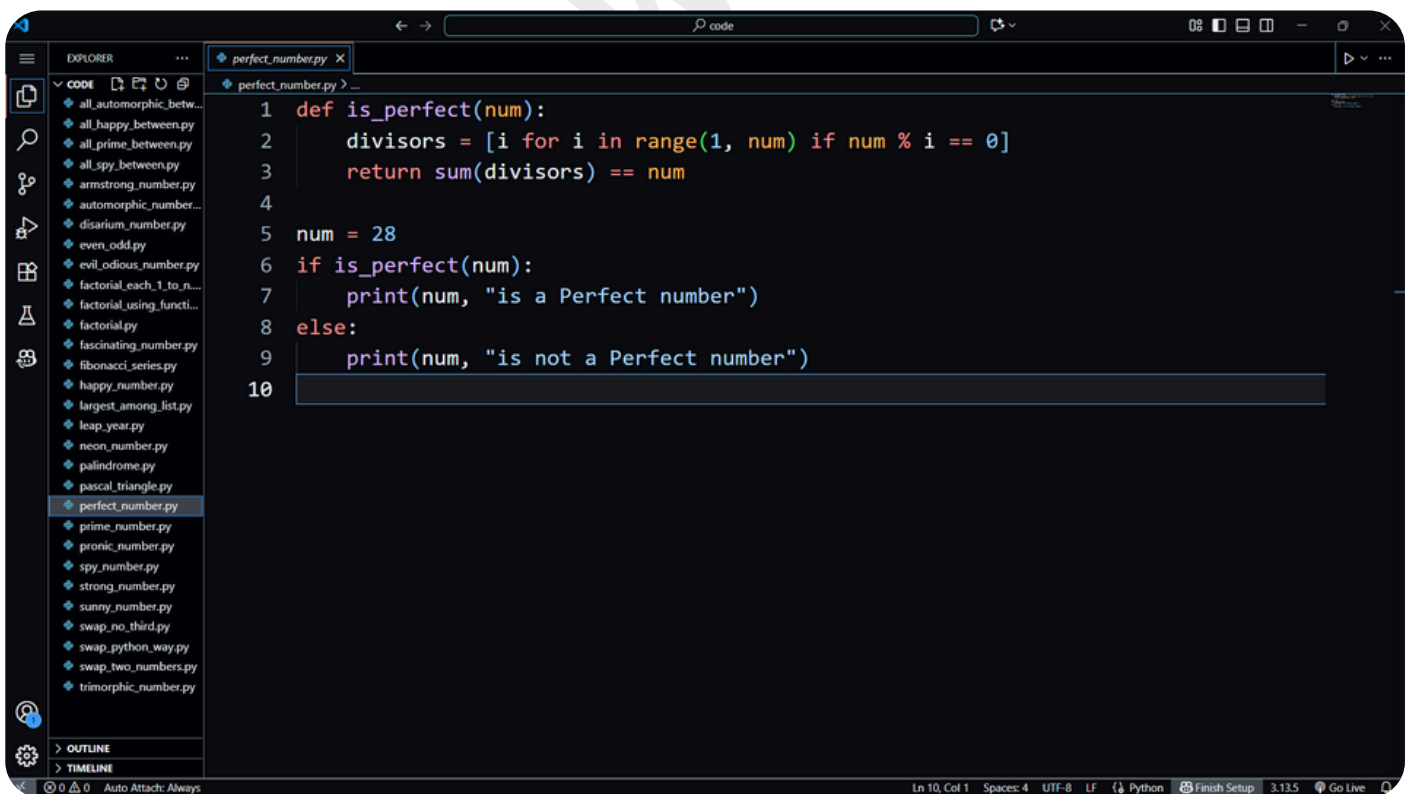
# PYTHON PROGRAM

## Python Problem

### 21. Perfect Number

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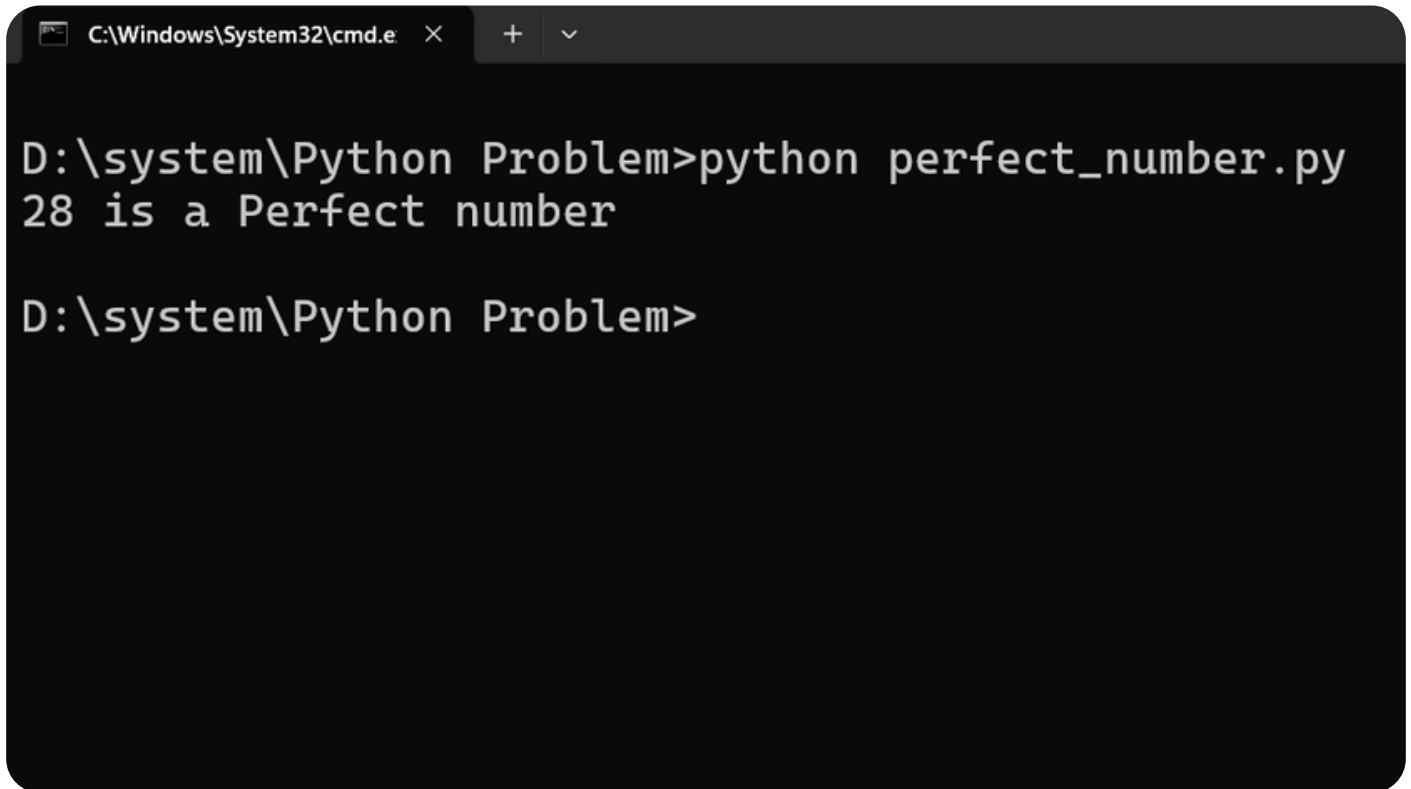
#### Code



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer lists various Python files, including 'perfect\_number.py'. The code editor displays the following Python code:

```
1 def is_perfect(num):
2     divisors = [i for i in range(1, num) if num % i == 0]
3     return sum(divisors) == num
4
5 num = 28
6 if is_perfect(num):
7     print(num, "is a Perfect number")
8 else:
9     print(num, "is not a Perfect number")
10
```

# 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 perfect\_number.py' being executed. The output of the command is '28 is a Perfect number'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.e × + ▾  
  
D:\system\Python Problem>python perfect_number.py  
28 is a Perfect number  
  
D:\system\Python Problem>
```

TechBy



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