



Python

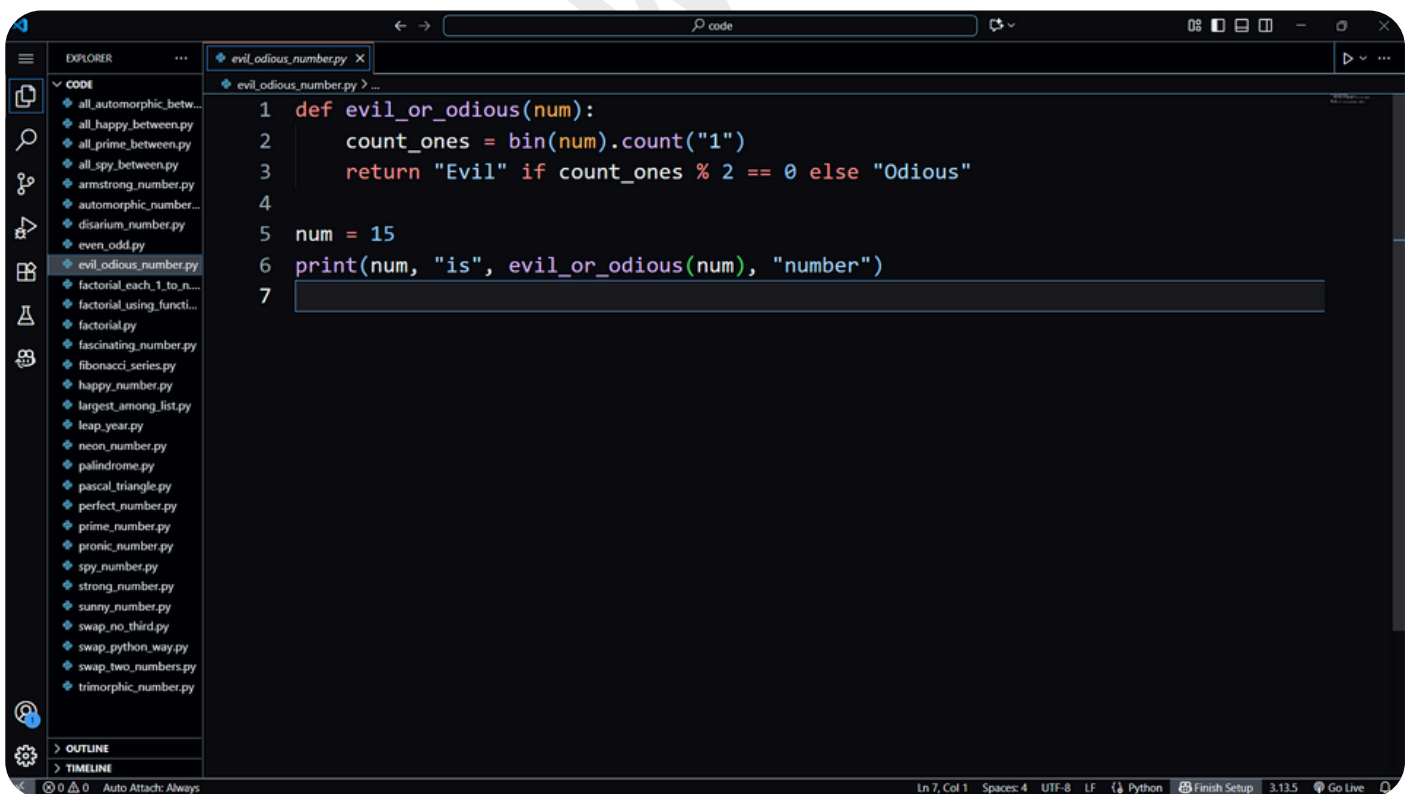
Problem

PYTHON PROGRAM

Python Problem

9. Evil–Odious Number

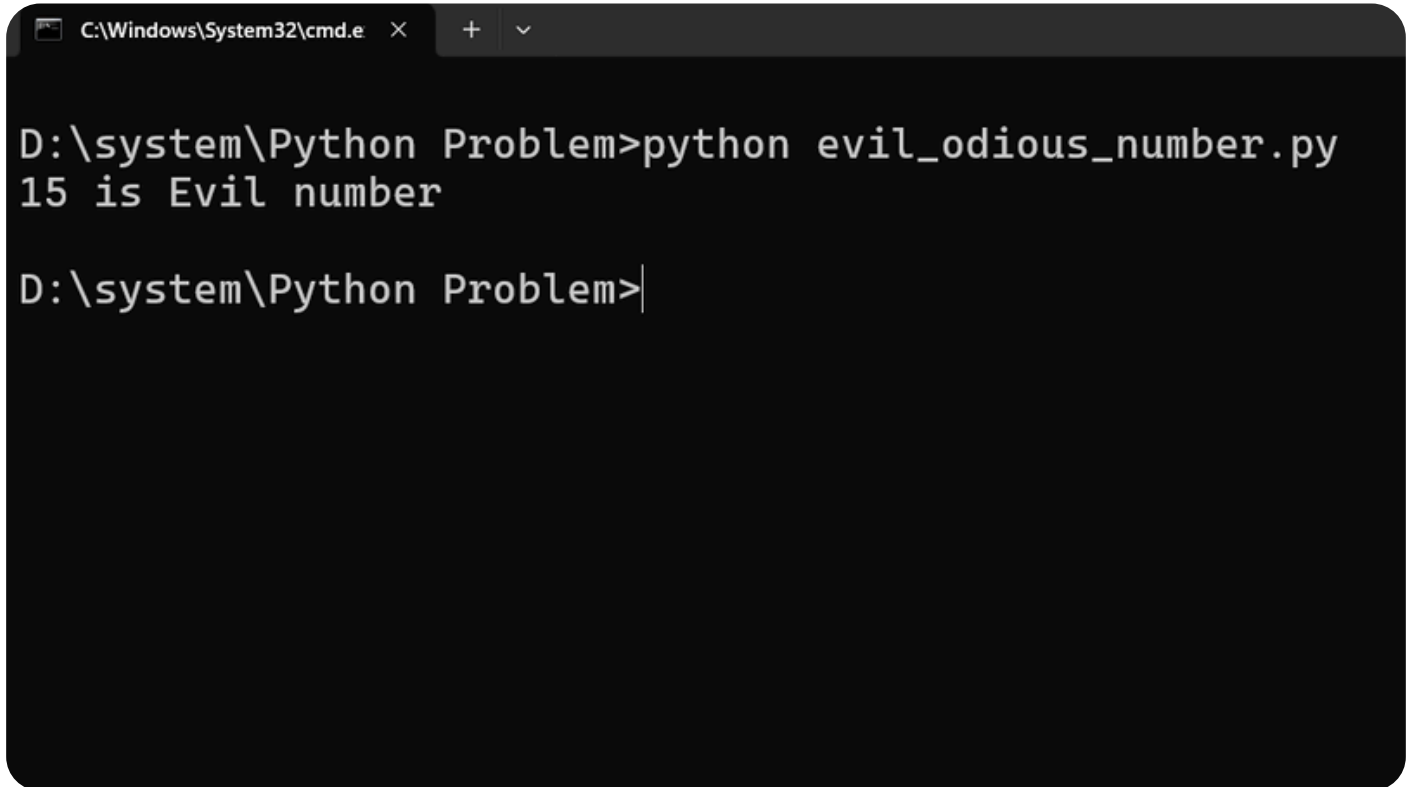
Code



```
1 def evil_or_odious(num):
2     count_ones = bin(num).count("1")
3     return "Evil" if count_ones % 2 == 0 else "Odious"
4
5 num = 15
6 print(num, "is", evil_or_odious(num), "number")
7
```

The screenshot shows a Visual Studio Code editor window. The Explorer sidebar on the left lists various Python files, with 'evil_odious_number.py' selected. The main editor area displays the code for the 'evil_or_odious' function, which takes a number 'num' and returns 'Evil' if the count of '1's in its binary representation is even, and 'Odious' otherwise. The code also sets 'num' to 15 and prints the result. The status bar at the bottom indicates the file is at line 7, column 1, with 4 spaces, UTF-8 encoding, and is a Python file.

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 execution of 'python evil_odious_number.py', which outputs '15 is Evil number'. A new command prompt line is shown below with a cursor.

```
C:\Windows\System32\cmd.e × + v  
D:\system\Python Problem>python evil_odious_number.py  
15 is Evil number  
D:\system\Python Problem>|
```

TechBy



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