



Python

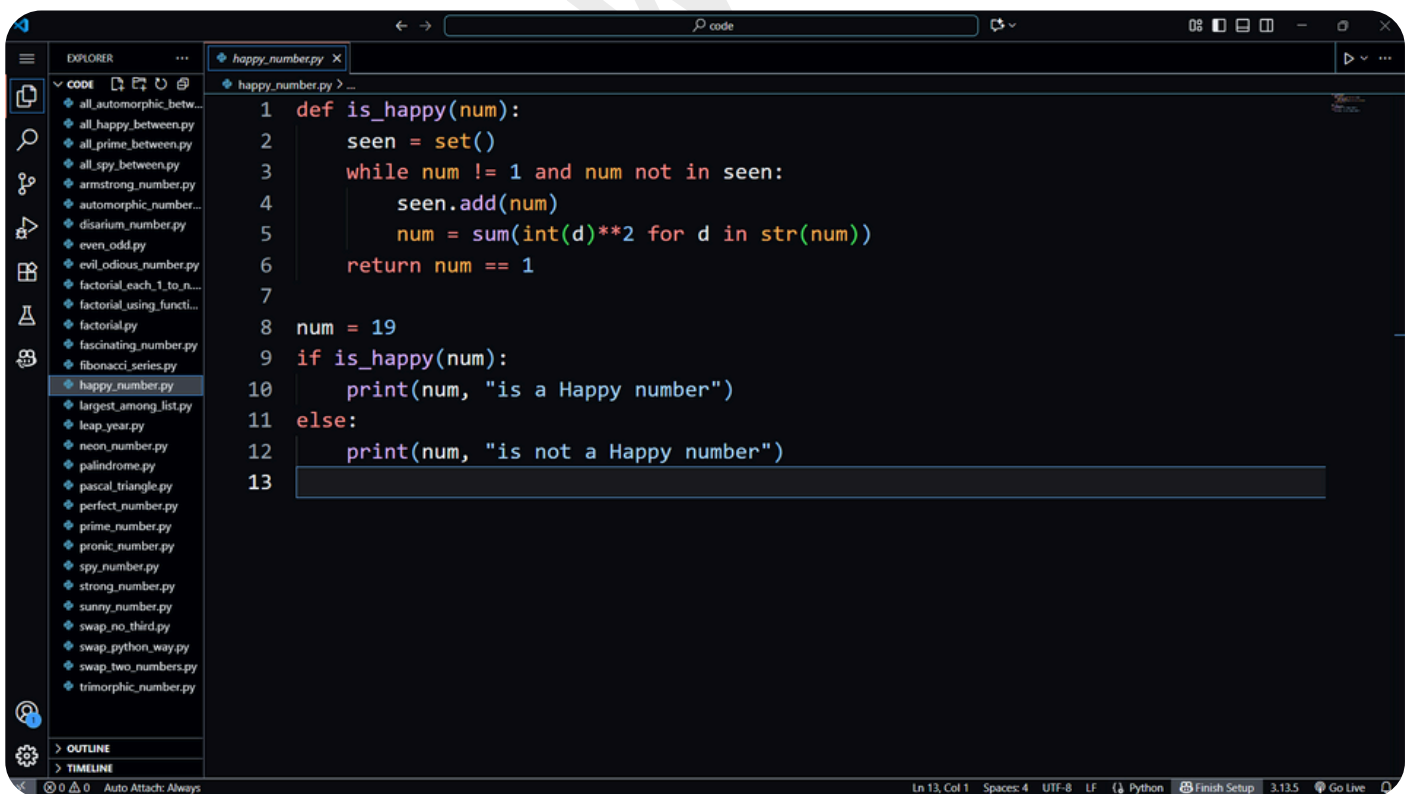
Problem

PYTHON PROGRAM

Python Problem

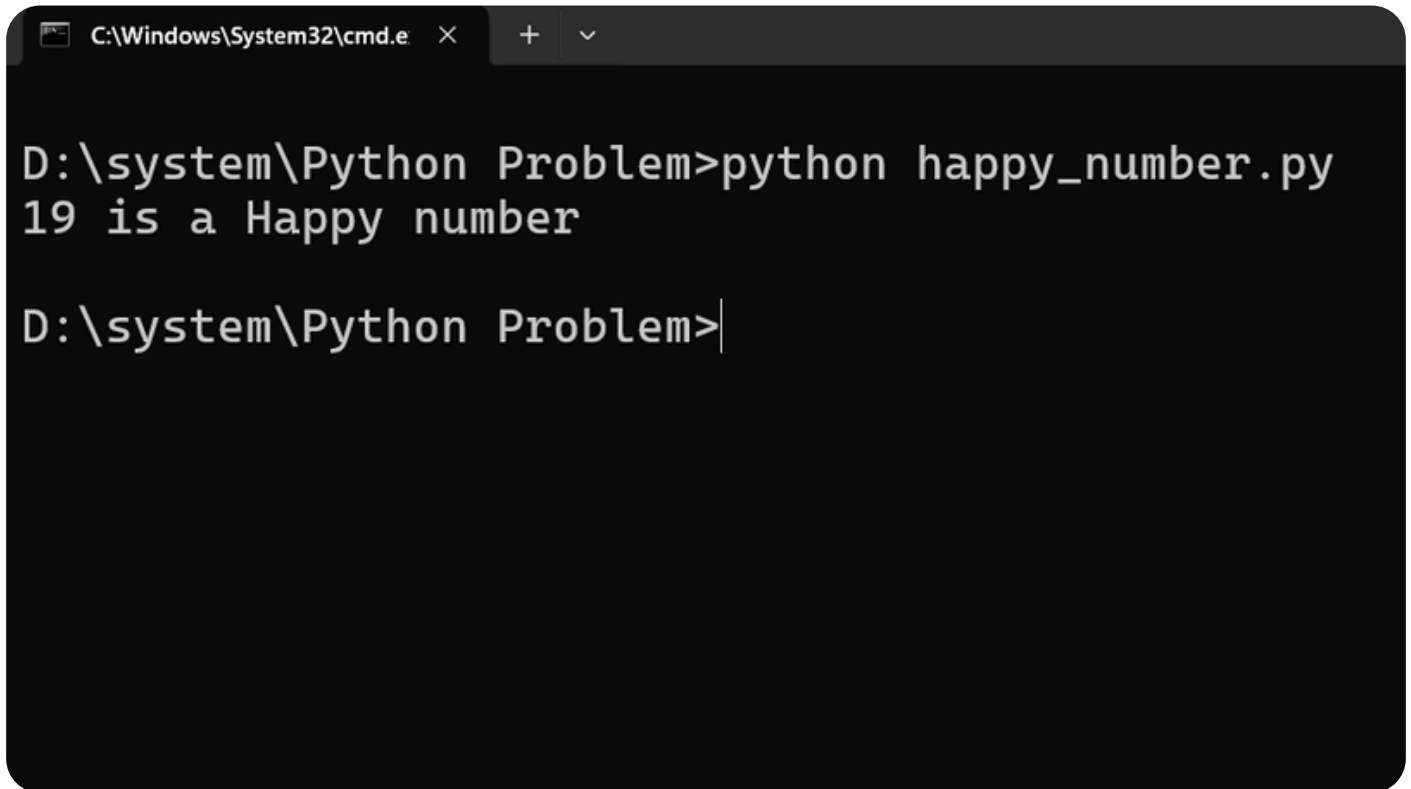
15. Happy Number

Code



```
1 def is_happy(num):
2     seen = set()
3     while num != 1 and num not in seen:
4         seen.add(num)
5         num = sum(int(d)**2 for d in str(num))
6     return num == 1
7
8 num = 19
9 if is_happy(num):
10     print(num, "is a Happy number")
11 else:
12     print(num, "is not a Happy number")
13
```

Output



A screenshot of a Windows command prompt window. The title bar at the top shows the file path 'C:\Windows\System32\cmd.e' and standard window controls. The command prompt itself has a black background with white text. The first line shows the command 'python happy_number.py' being executed from the directory 'D:\system\Python Problem'. The second line shows the output '19 is a Happy number'. The third line shows the prompt 'D:\system\Python Problem>' with a cursor at the end, ready for the next command.

```
C:\Windows\System32\cmd.e × + v  
  
D:\system\Python Problem>python happy_number.py  
19 is a Happy number  
  
D:\system\Python Problem>|
```

TechBy



Thank you !
Follow For More

