



# Python

# Problem

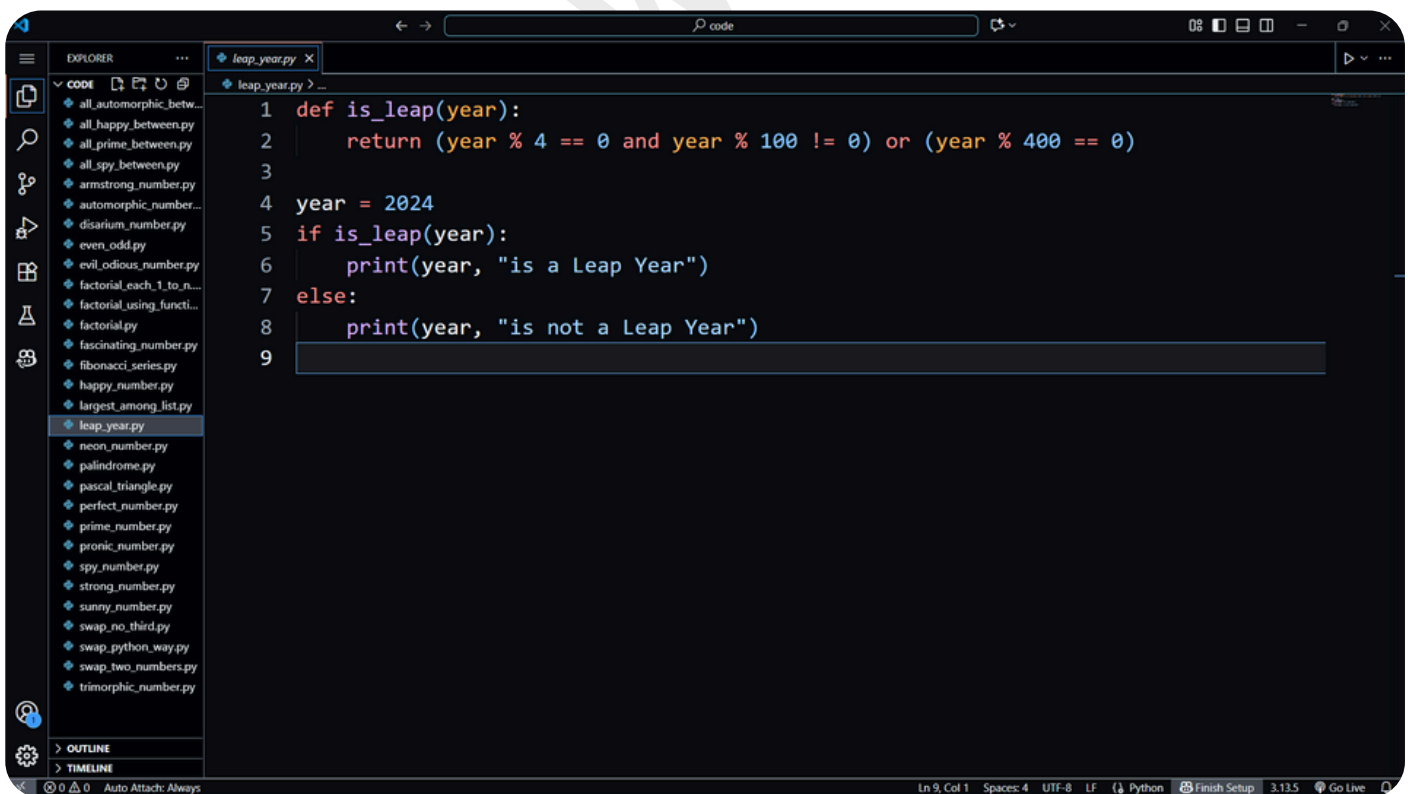
# PYTHON PROGRAM

## Python Problem

### 17. Leap Year

---

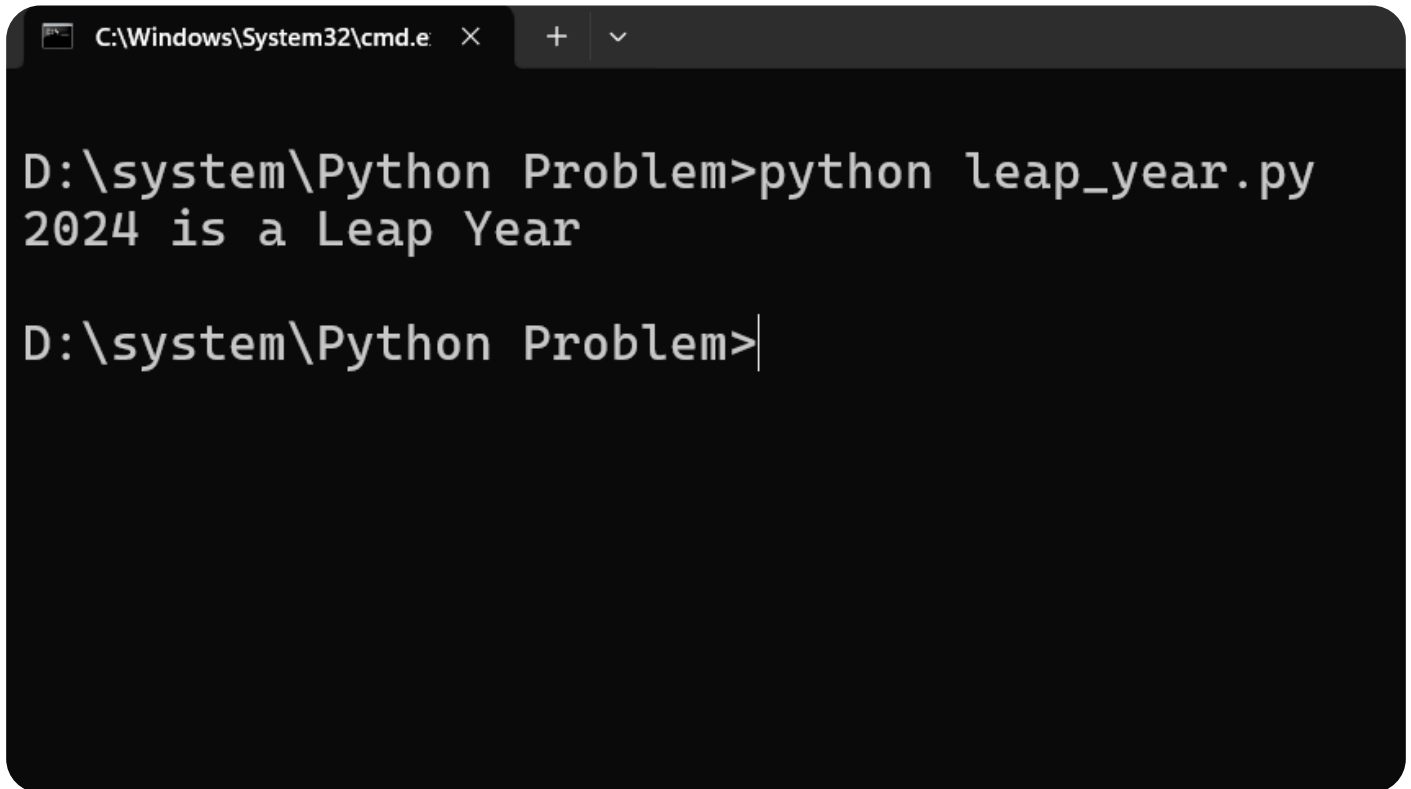
#### Code



```
1 def is_leap(year):
2     return (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0)
3
4 year = 2024
5 if is_leap(year):
6     print(year, "is a Leap Year")
7 else:
8     print(year, "is not a Leap Year")
9
```

The screenshot shows a code editor with a file explorer on the left containing various Python files. The main editor window displays the code for a leap year checker. The code defines a function `is_leap` that returns a boolean value based on the year's divisibility by 4, 100, and 400. It then sets `year = 2024` and uses an `if` 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 leap\_year.py' being executed. The output of the script is '2024 is a Leap Year'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.e × + v  
  
D:\system\Python Problem>python leap_year.py  
2024 is a Leap Year  
  
D:\system\Python Problem>|
```

TechBy



**Thank you !**  
**Follow For More**

