

# Python

# Problem

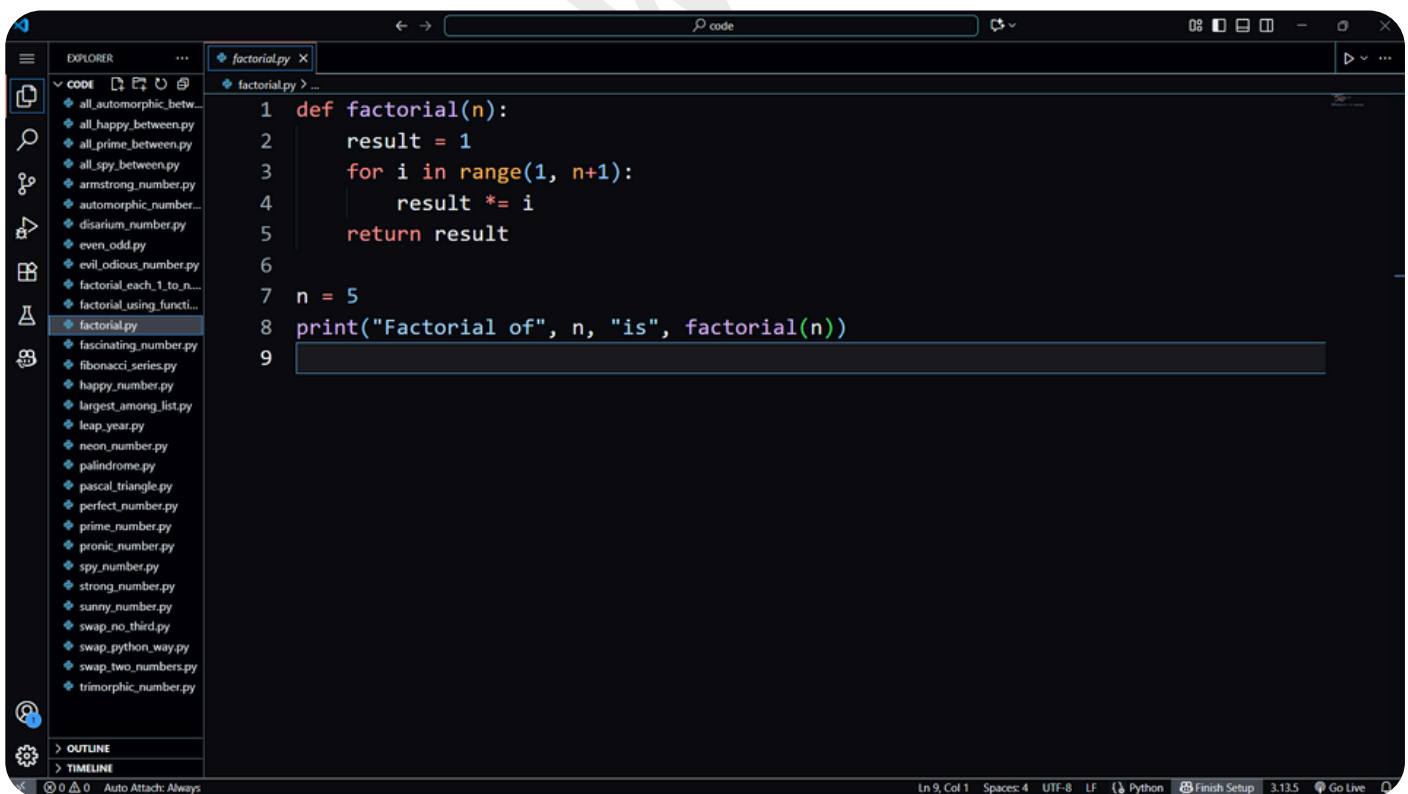
# PYTHON PROGRAM

## Python Problem

### 10. Factorial Number

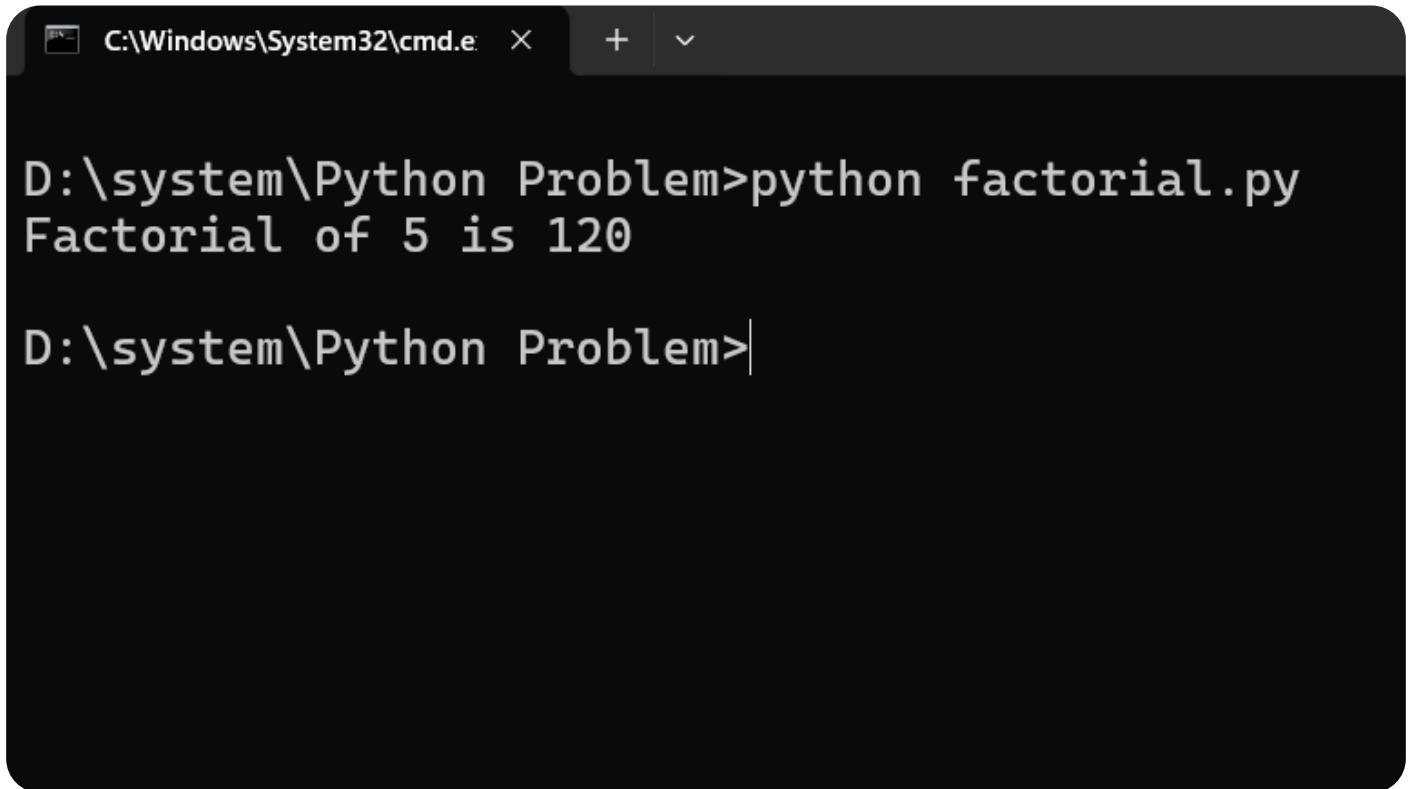
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#### Code

A screenshot of a Python IDE interface. The left sidebar shows a file explorer with a list of Python files, including 'factorial.py'. The main editor window displays the code for a factorial function. The code defines a function 'factorial(n)' that calculates the factorial of 'n' using a loop. It then sets 'n = 5' and prints the result. The status bar at the bottom shows 'Ln 9, Col 1', 'Spaces: 4', 'UTF-8', 'LF', 'Python', 'Finish Setup', '3.13.5', and 'Go Live'.

```
1 def factorial(n):  
2     result = 1  
3     for i in range(1, n+1):  
4         result *= i  
5     return result  
6  
7 n = 5  
8 print("Factorial of", n, "is", factorial(n))  
9
```

# 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 factorial.py' being executed. The output is 'Factorial of 5 is 120'. The prompt is ready for the next command.

```
C:\Windows\System32\cmd.e × + v  
D:\system\Python Problem>python factorial.py  
Factorial of 5 is 120  
D:\system\Python Problem>
```

TechBy



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