



```
File Edit Selection View Go Run ... < -> ai assisted 2
# Recursive version of factorial.py > ...
1 # Recursive version of factorial
2 def factorial_recursive(n):
3     if n == 0 or n == 1:
4         return 1
5     else:
6         return n * factorial_recursive(n - 1)
7
8 # Iterative version of factorial
9 def factorial_iterative(n):
10     result = 1
11     for i in range(2, n + 1):
12         result *= i
13     return result
14
15 # Example usage
16 if __name__ == "__main__":
17     num = 5
18     print("Recursive:", factorial_recursive(num))
19     print("Iterative:", factorial_iterative(num))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

s\THANUSHKA\OneDrive\Desktop\ai assisted 2\# Recursive version of factorial.py'
PS C:\Users\THANUSHKA\OneDrive\Desktop\ai assisted 2> c;; cd 'c:\Users\THANUSHKA\OneDrive\Desktop\ai assi
sted 2'; & 'c:\Users\THANUSHKA\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\THANUSHKA\.vs
code\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '57348' '--' 'c:\User
s\THANUSHKA\OneDrive\Desktop\ai assisted 2\# Recursive version of factorial.py'
PS C:\Users\THANUSHKA\OneDrive\Desktop\ai assisted 2> c;; cd 'c:\Users\THANUSHKA\OneDrive\Desktop\ai assi
sted 2'; & 'c:\Users\THANUSHKA\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\THANUSHKA\.vs
code\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '57481' '--' 'c:\User
s\THANUSHKA\OneDrive\Desktop\ai assisted 2\# Recursive version of factorial.py'
Recursive: 120
Iterative: 120
PS C:\Users\THANUSHKA\OneDrive\Desktop\ai assisted 2>

Ln 8, Col 33 Spaces: 4 UTF-8 CRLF () Python 3.13.5
```

```
File Edit Selection View Go Run ... < -> ai assisted 2
prime.py > ...
1 def is_prime(n):
2     if n <= 1:
3         return False
4     if n == 2:
5         return True
6     if n % 2 == 0:
7         return False
8     for i in range(3, int(n ** 0.5) + 1, 2):
9         if n % i == 0:
10            return False
11    return True
12
13 # Example usage
14 number = int(input("Enter a number: "))
15 if is_prime(number):
16     print(f"{number} is a prime number.")
17 else:
18     print(f"{number} is not a prime number.")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

+ CategoryInfo          : ObjectNotFound: (String) [], CommandNotFoundException
+ FullyQualifiedErrorId : CommandNotFoundException

Enter a string to reverse: 45
Reversed string: 54
PS C:\Users\THANUSHKA\OneDrive\Desktop\ai assisted 2> c;; cd 'c:\Users\THANUSHKA\OneDrive\Desktop\ai assi
sted 2'; & 'c:\Users\THANUSHKA\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\THANUSHKA\.vs
code\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '57527' '--' 'c:\User
s\THANUSHKA\OneDrive\Desktop\ai assisted 2\prime.py'
Enter a number: 10
10 is not a prime number.
PS C:\Users\THANUSHKA\OneDrive\Desktop\ai assisted 2>

Ln 18, Col 46 Spaces: 4 UTF-8 CRLF () Python 3.13.5
```