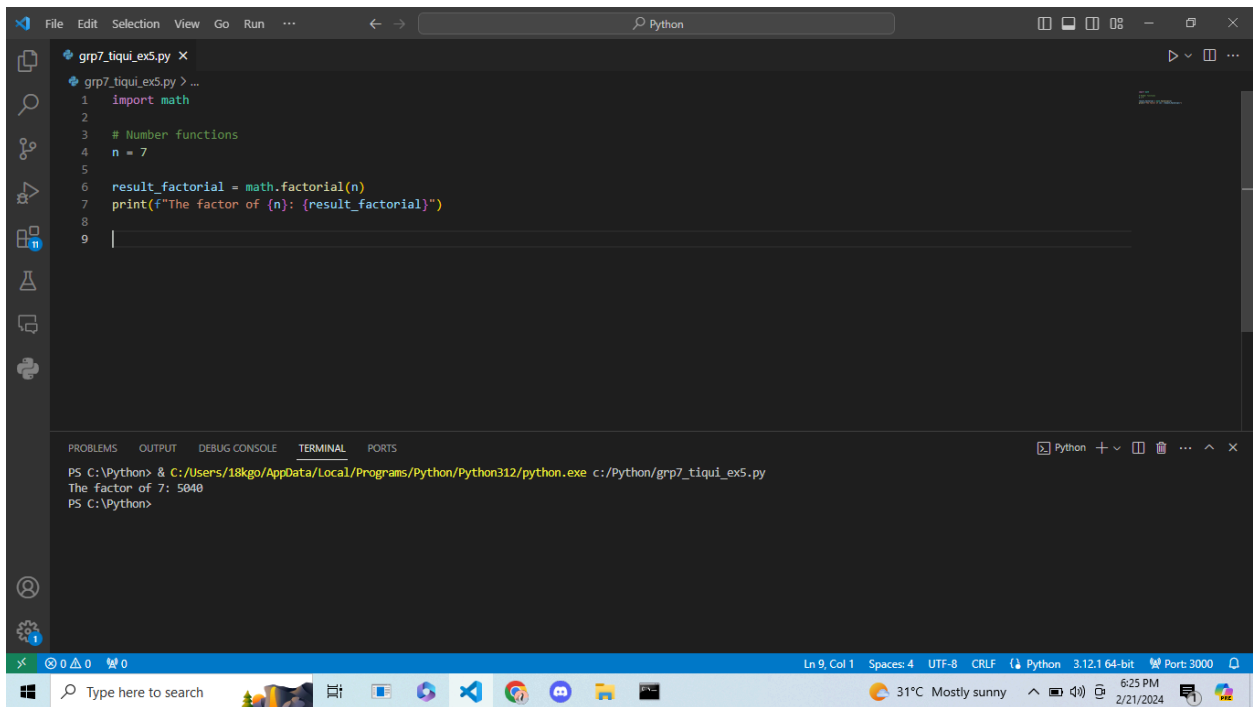


```
File Edit Selection View Go Run ... Python
grp7_tiqui_ex5.py X
grp7_tiqui_ex5.py > ...
1 import math
2
3 # Trigonometric functions
4 angle_deg = 50
5
6 angle_rad = math.radians(angle_deg)
7
8 sin_result = math.sin(angle_rad)
9
10 print(f"The sin of {angle_deg} degrees is: {sin_result}")
11

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Python> & C:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_ex5.py
The sin of 50 degrees is: 0.766044443118978
PS C:\Python>
```



```
File Edit Selection View Go Run ... Python
grp7_tiqui_ex5.py X
grp7_tiqui_ex5.py > ...
1 import math
2
3 # Number functions
4 n = 7
5
6 result_factorial = math.factorial(n)
7 print(f"The factor of {n}: {result_factorial}")
8
9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Python> & C:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_ex5.py
The factor of 7: 5040
PS C:\Python>
```

This screenshot shows a Visual Studio Code editor with a Python file named `grp7_tiqui_ex5.py`. The script imports the `math` module, defines a constant `hyperbolic_x = 4`, calculates the hyperbolic sine of 4 using `math.sinh(hyperbolic_x)`, and prints the result. The terminal window at the bottom shows the command to run the script and the output: "The hyperbolic sin of 4 is: 27.289917197127753".

```
grp7_tiqui_ex5.py X
grp7_tiqui_ex5.py > ...
1 import math
2
3 # Hyperbolic functions
4 hyperbolic_x = 4
5
6 sin2_result = math.sinh(hyperbolic_x)
7
8 print(f"The hyperbolic sin of {hyperbolic_x} is: {sin2_result}")
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Python> & C:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_ex5.py
The hyperbolic sin of 4 is: 27.289917197127753
PS C:\Python>

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.1 64-bit Port: 3000

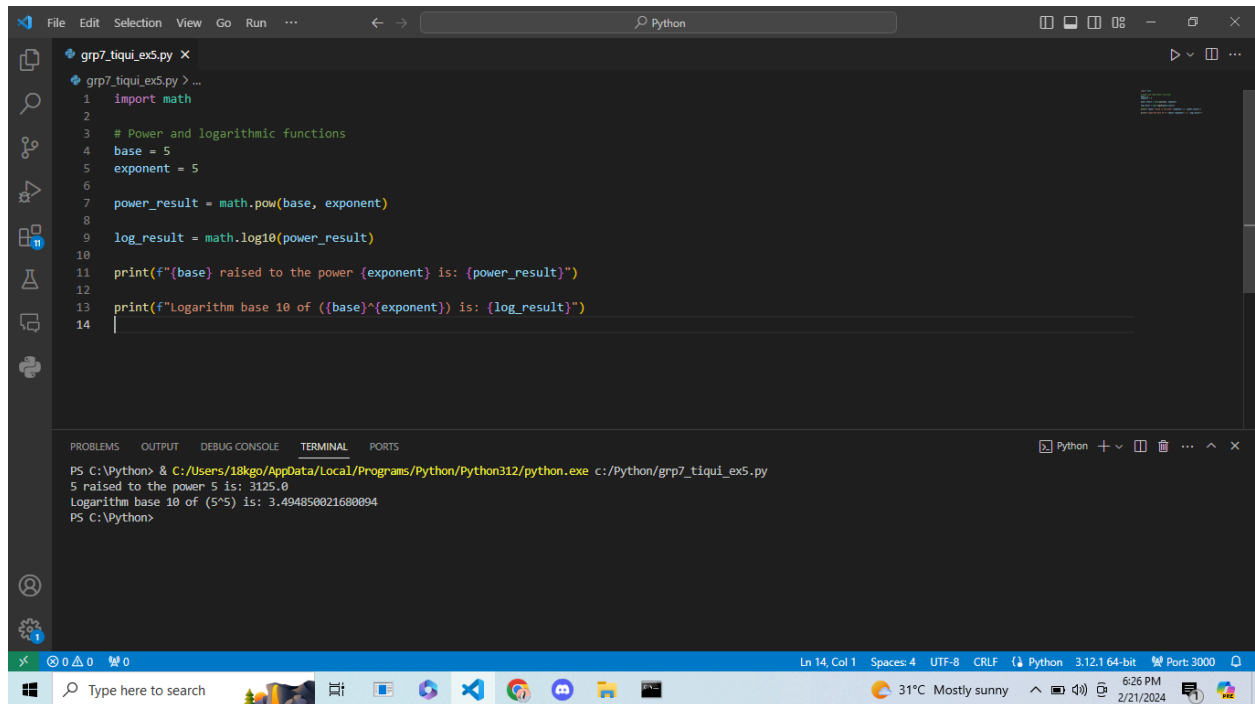
This screenshot shows a Visual Studio Code editor with a Python file named `grp7_tiqui_ex5.py`. The script imports the `math` module, defines a constant `angle_rad2 = math.pi / 3`, calculates the angle in degrees using `math.degrees(angle_rad2)`, and prints the result. The terminal window at the bottom shows the command to run the script and the output: "1.0471975511965976 radians is equal to 59.99999999999999 degrees".

```
grp7_tiqui_ex5.py X
grp7_tiqui_ex5.py > ...
1 import math
2
3 # Angular conversion functions
4 angle_rad2 = math.pi / 3
5
6 angle_deg2 = math.degrees(angle_rad2)
7
8 print(f"{angle_rad2} radians is equal to {angle_deg2} degrees")
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Python> & C:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_ex5.py
1.0471975511965976 radians is equal to 59.99999999999999 degrees
PS C:\Python>

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.1 64-bit Port: 3000



```
File Edit Selection View Go Run ... Python
grp7_tiqui_ex5.py X
grp7_tiqui_ex5.py > ...
1 import math
2
3 # Power and logarithmic functions
4 base = 5
5 exponent = 5
6
7 power_result = math.pow(base, exponent)
8
9 log_result = math.log10(power_result)
10
11 print(f"{base} raised to the power {exponent} is: {power_result}")
12
13 print(f"Logarithm base 10 of ({base}^{exponent}) is: {log_result}")
14

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python + - - - ^ x
PS C:\Python> & C:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_ex5.py
5 raised to the power 5 is: 3125.0
Logarithm base 10 of (5^5) is: 3.494850021680094
PS C:\Python>
Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.1 64-bit Port: 3000
Type here to search 31°C Mostly sunny 6:26 PM 2/21/2024
```