

# Lab Task No: 2

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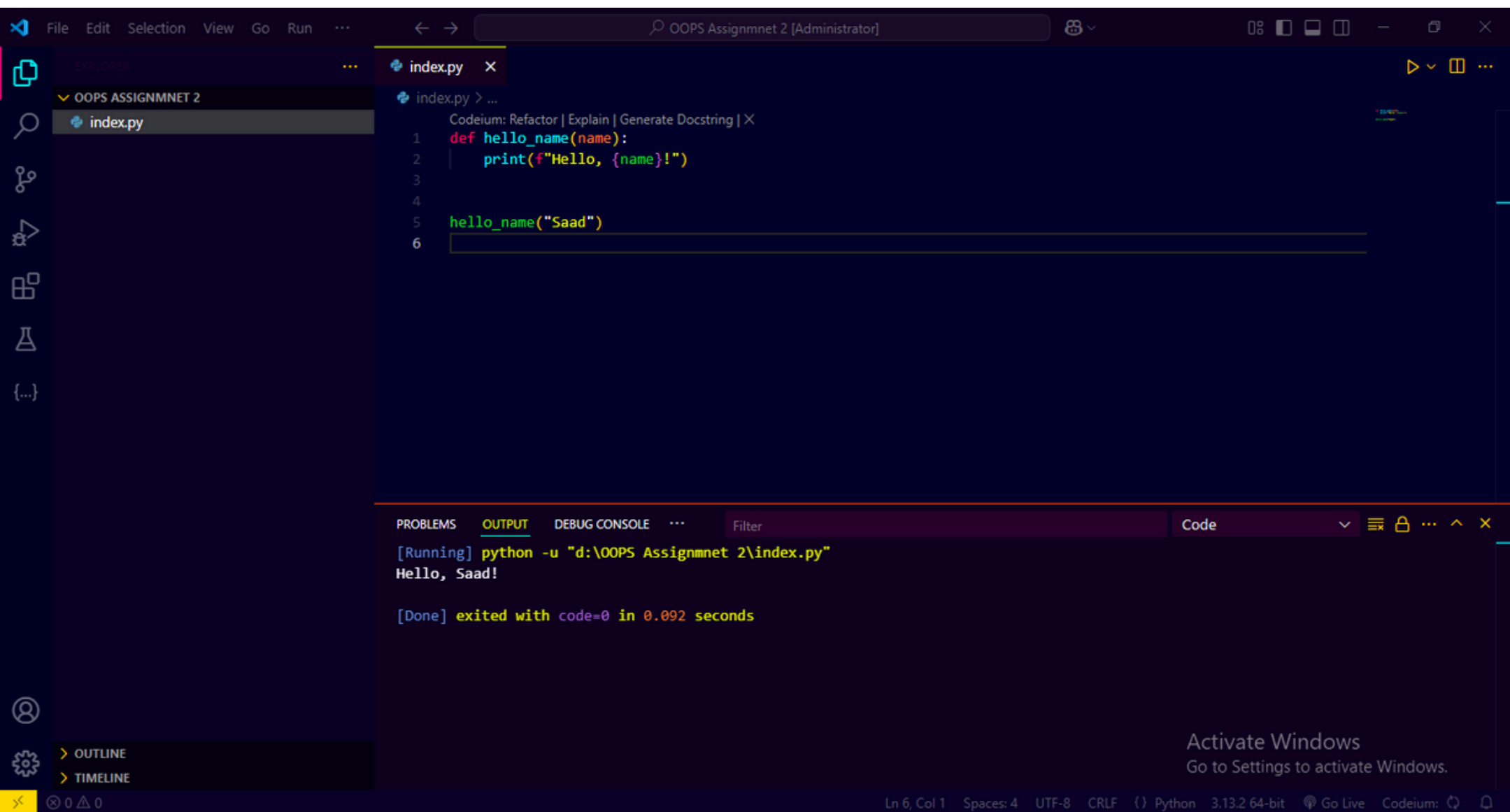
**Section:** “C” / 2ND

**Subject:** “oop”

**Date:** 12/03/2025

# Exercise No: 1

Write a function `hello_name` that takes a name as an argument and prints "Hello, !".



The screenshot shows a code editor with a dark theme. The Explorer panel on the left shows a project named 'OOPS ASSIGNMNET 2' with a file 'index.py'. The main editor area shows the following Python code:

```
1 def hello_name(name):  
2     print(f"Hello, {name}!")  
3  
4  
5 hello_name("Saad")  
6
```

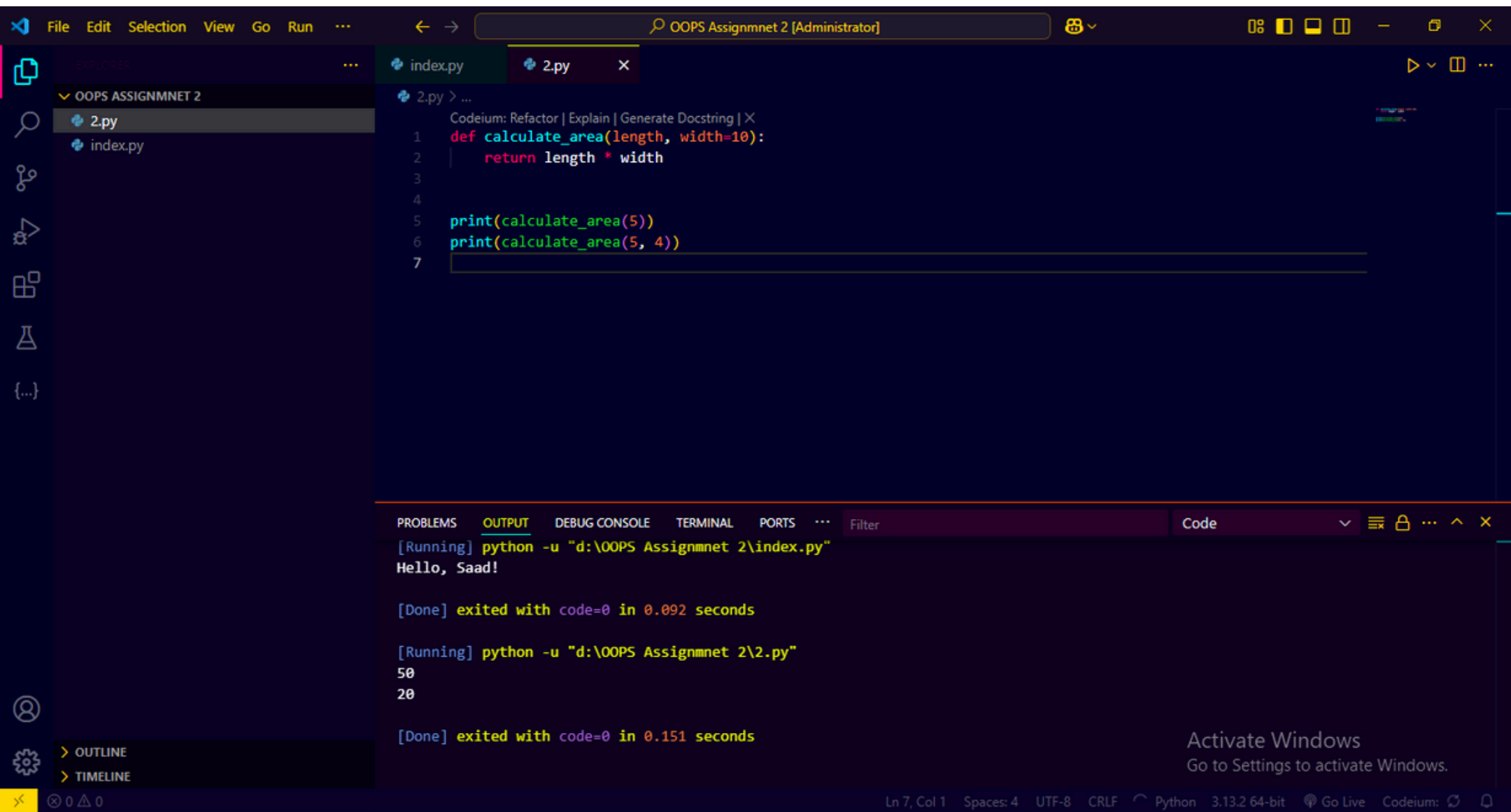
The Output panel at the bottom shows the execution results:

```
[Running] python -u "d:\OOPS Assignmnet 2\index.py"  
Hello, Saad!  
  
[Done] exited with code=0 in 0.092 seconds
```

The status bar at the bottom indicates the current line and column (Ln 6, Col 1), the number of spaces (4), the encoding (UTF-8), the line endings (CRLF), the interpreter (Python 3.13.2 64-bit), and the extension (Go Live, Codeium).

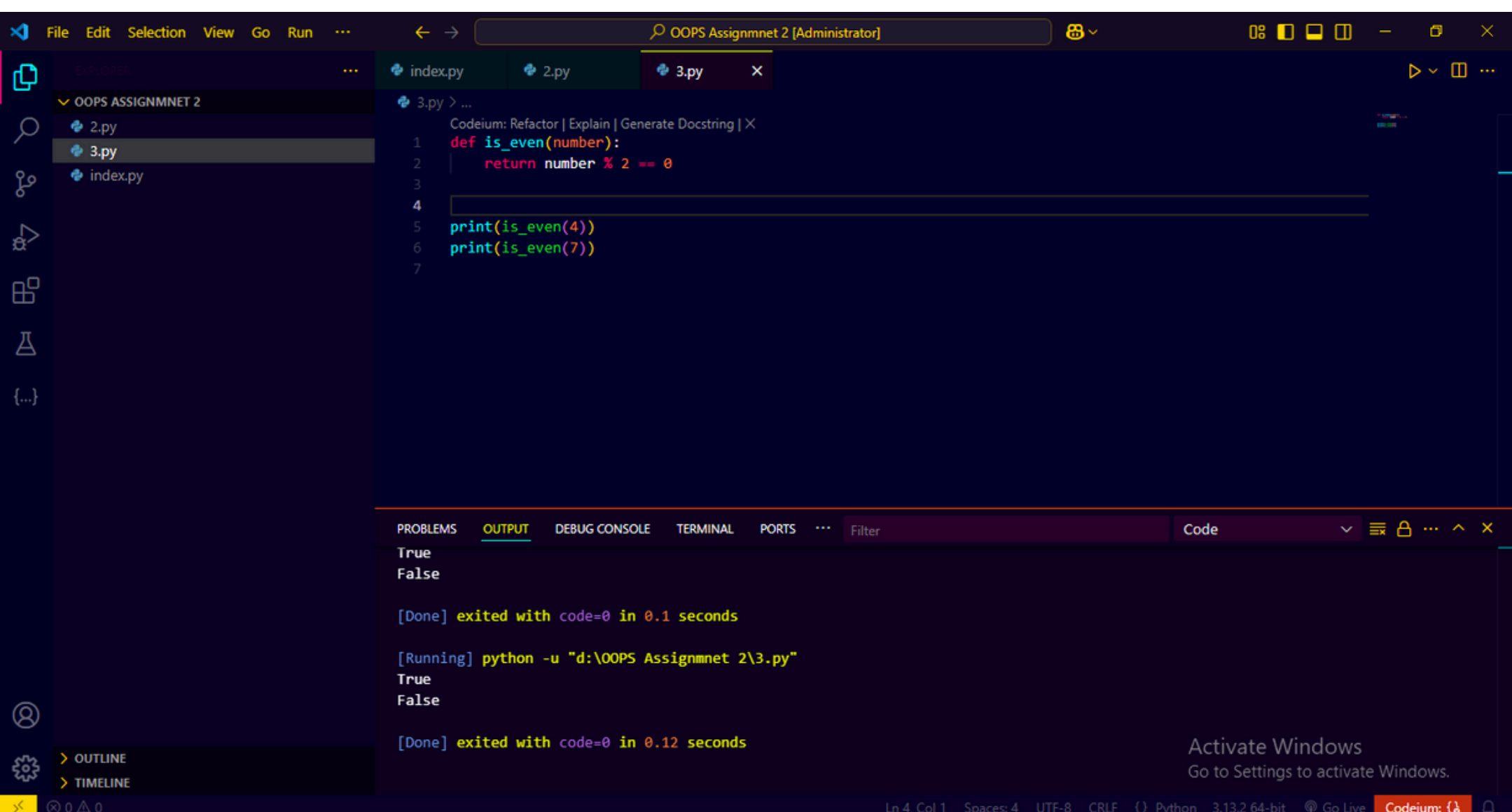
# Exercise No: 2

Write a function `calculate_area` that takes `length` and `width` as arguments and returns the area of a rectangle. The width should have a default value of 10.



# Exercise No: 3

Write a function `is_even` that returns `True` if a given number is even and `False` otherwise.



The screenshot shows a Visual Studio Code editor window titled "OOPS Assignmnet 2 [Administrator]". The Explorer sidebar on the left shows a project named "OOPS ASSIGNMNET 2" with files "2.py", "3.py", and "index.py". The file "3.py" is selected and open in the editor. The code in "3.py" is as follows:

```
1 def is_even(number):  
2     return number % 2 == 0  
3  
4  
5 print(is_even(4))  
6 print(is_even(7))  
7
```

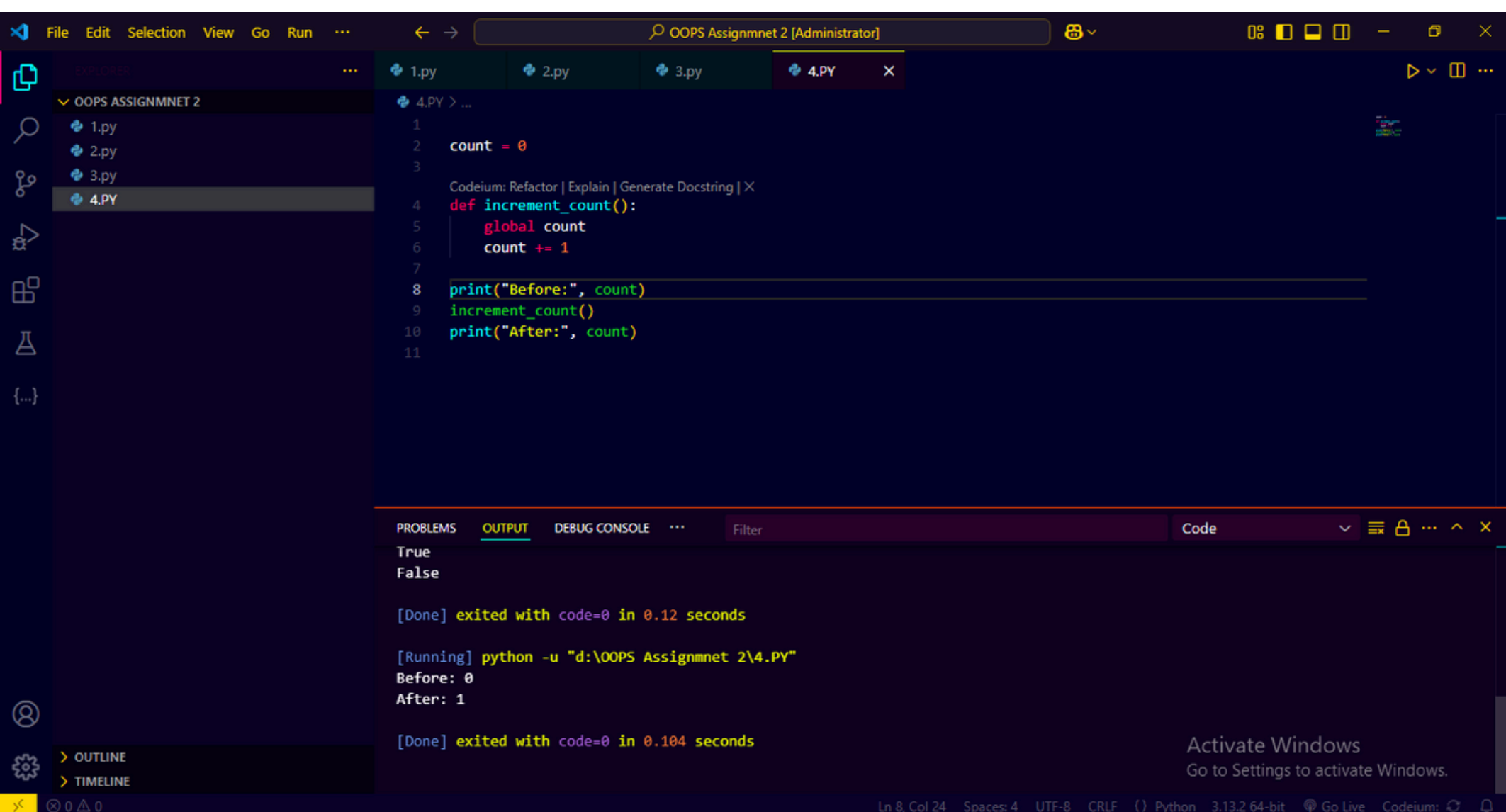
The Output panel at the bottom shows the execution results:

```
True  
False  
  
[Done] exited with code=0 in 0.1 seconds  
  
[Running] python -u "d:\OOPS Assignmnet 2\3.py"  
True  
False  
  
[Done] exited with code=0 in 0.12 seconds
```

The status bar at the bottom indicates the current line and column (Ln 4, Col 1), encoding (UTF-8), line endings (CRLF), and the Python interpreter (Python 3.13.2 64-bit). The Codeium logo is also visible in the bottom right corner.

# Exercise No: 4

Create a function that modifies a global variable inside a function using the global keyword.



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays a project named 'OOPS ASSIGNMNET 2' containing four files: 1.py, 2.py, 3.py, and 4.PY. The file 4.PY is selected and open in the main editor. The code in 4.PY is as follows:

```
1
2 count = 0
3
4 def increment_count():
5     global count
6     count += 1
7
8 print("Before:", count)
9 increment_count()
10 print("After:", count)
11
```

Below the code editor, the Output window is visible, showing the execution results:

```
True
False

[Done] exited with code=0 in 0.12 seconds

[Running] python -u "d:\OOPS Assignmnet 2\4.PY"
Before: 0
After: 1

[Done] exited with code=0 in 0.104 seconds
```

The status bar at the bottom indicates the current cursor position is at line 8, column 24, with 4 spaces, using UTF-8 encoding and CRLF line endings. The editor is running Python 3.13.2 64-bit. A watermark for 'Activate Windows' is visible in the bottom right corner.