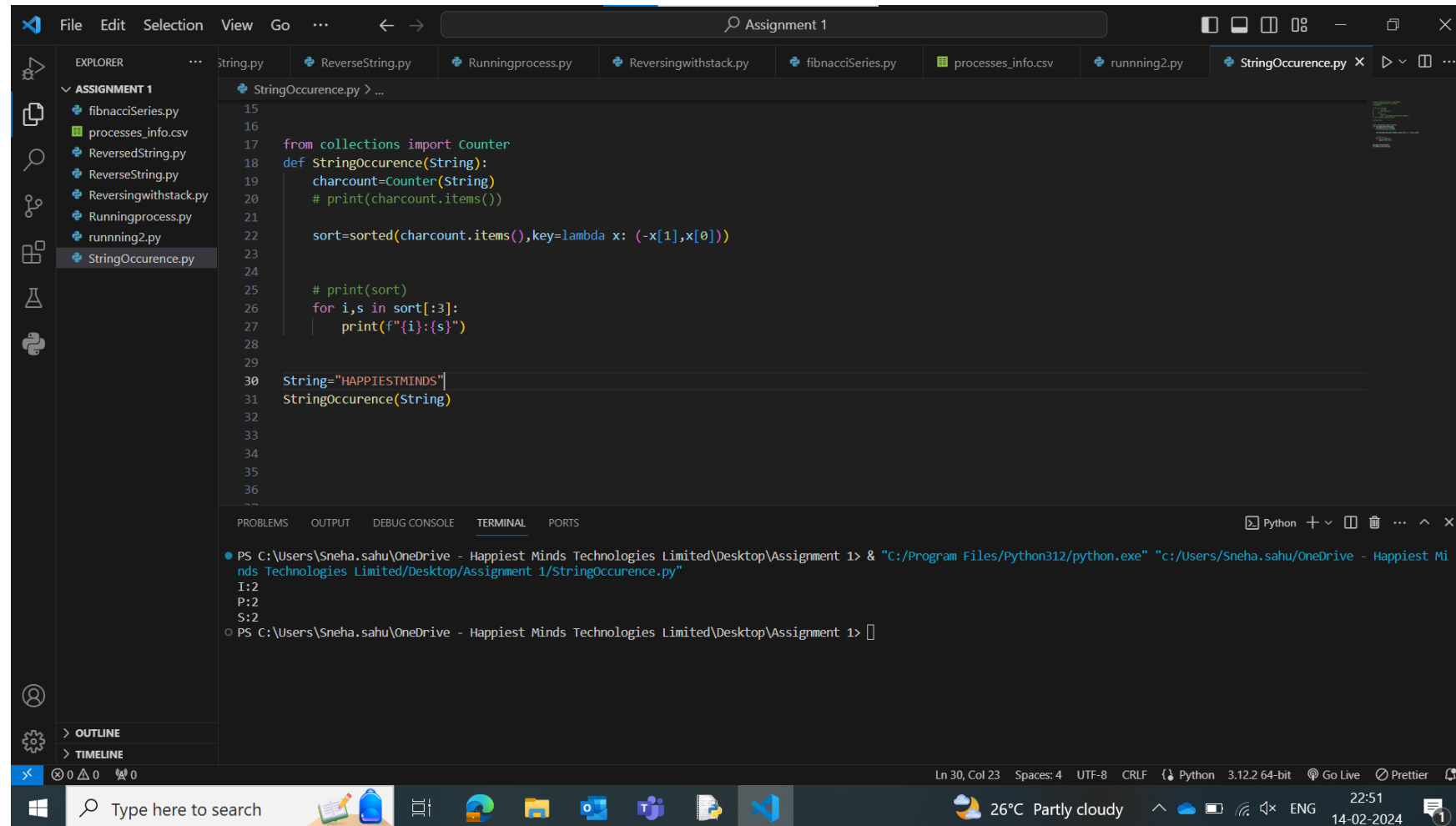


Assignment Outputs

Output of String Occurrence :



The screenshot displays the Visual Studio Code interface with a Python file named `StringOccurrence.py` open. The file contains a function `StringOccurrence` that uses `collections.Counter` to count characters in a string, sorts the counts, and prints the top three most frequent characters. The script is executed in a terminal window, showing the command and the resulting output.

```
15
16
17 from collections import Counter
18 def StringOccurrence(String):
19     charcount=Counter(String)
20     # print(charcount.items())
21
22     sort=sorted(charcount.items(),key=lambda x: (-x[1],x[0]))
23
24
25     # print(sort)
26     for i,s in sort[:3]:
27         print(f"{i}:{s}")
28
29
30 String="HAPPIESTMINDS"
31 StringOccurrence(String)
32
33
34
35
36
...
```

Terminal Output:

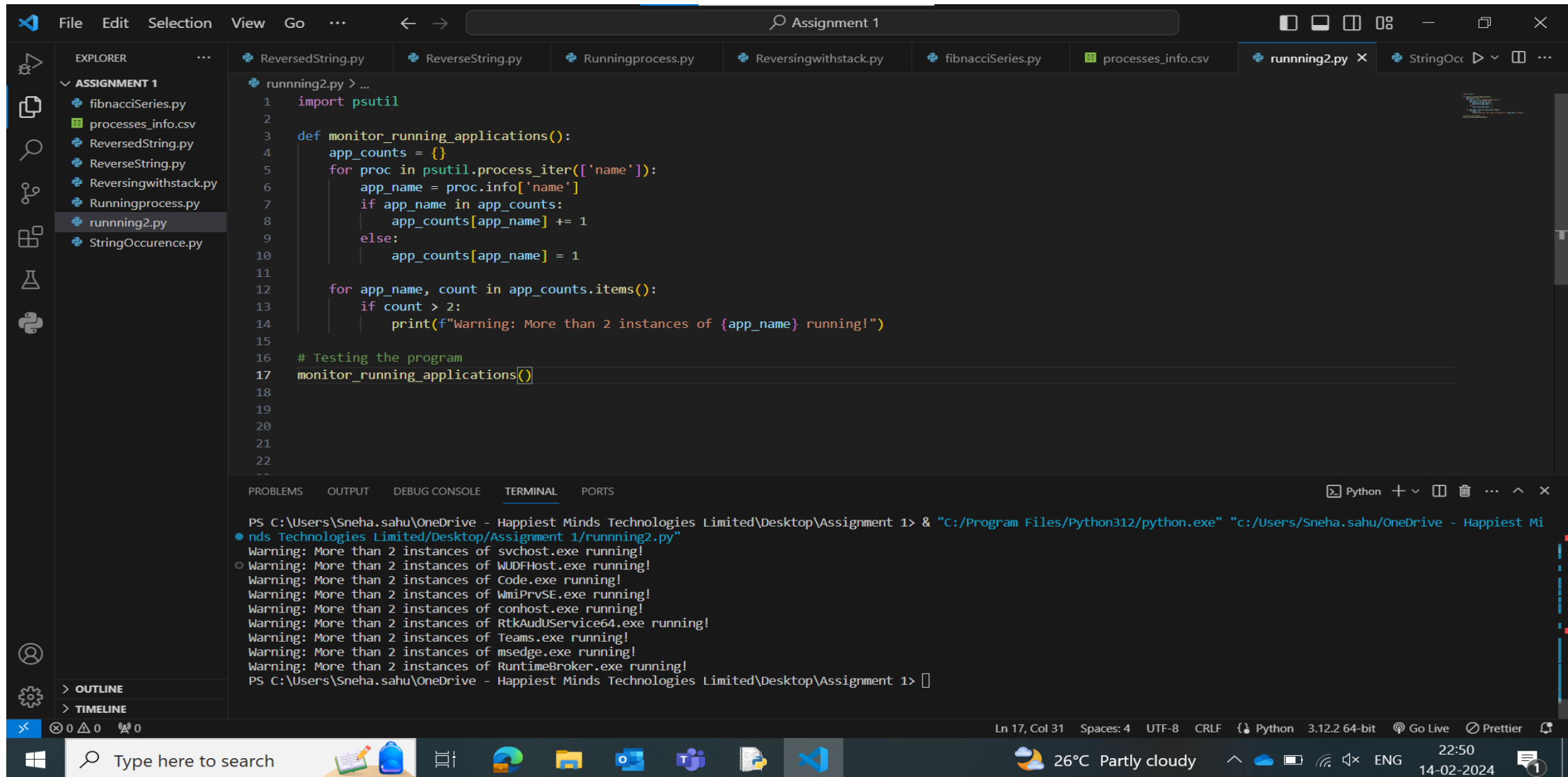
```
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Minds Technologies Limited/Desktop/Assignment 1/StringOccurrence.py"
I:2
P:2
S:2
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>
```

VS Code status bar at the bottom shows: Ln 30, Col 23, Spaces: 4, UTF-8, CRLF, Python 3.12.2 64-bit, Go Live, Prettier.

Output of Running process Question 2 :

The image shows a screenshot of the Visual Studio Code (VS Code) editor interface. The top bar displays the menu (File, Edit, Selection, View, Go) and the search bar with the text "Assignment 1". The Explorer panel on the left shows a project named "ASSIGNMENT 1" with several files: fibnacciSeries.py, processes_info.csv, ReversedString.py, ReverseString.py, Reversingwithstack.py, Runningprocess.py (selected), runnning2.py, and StringOccurence.py. The main editor area displays the code for Runningprocess.py. The code defines a function count_processes(processes) that counts the occurrences of each process name in a list. It also defines a function save_to_csv(process_count) that writes the process count data to a CSV file named processes_info.csv. The code is executed, and the output is shown in the Terminal panel at the bottom. The terminal output shows the command prompt PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> and the execution of the Python script, which successfully saves the process information to processes_info.csv. The status bar at the bottom shows the current file is at line 45, column 48, with 4 spaces, UTF-8 encoding, CRLF line endings, Python 3.12.2 64-bit, and the Go Live extension is active. The system tray at the very bottom shows the date and time as 14-02-2024 22:50, and the weather as 26°C Partly cloudy.

Output of Running process Question 3 :



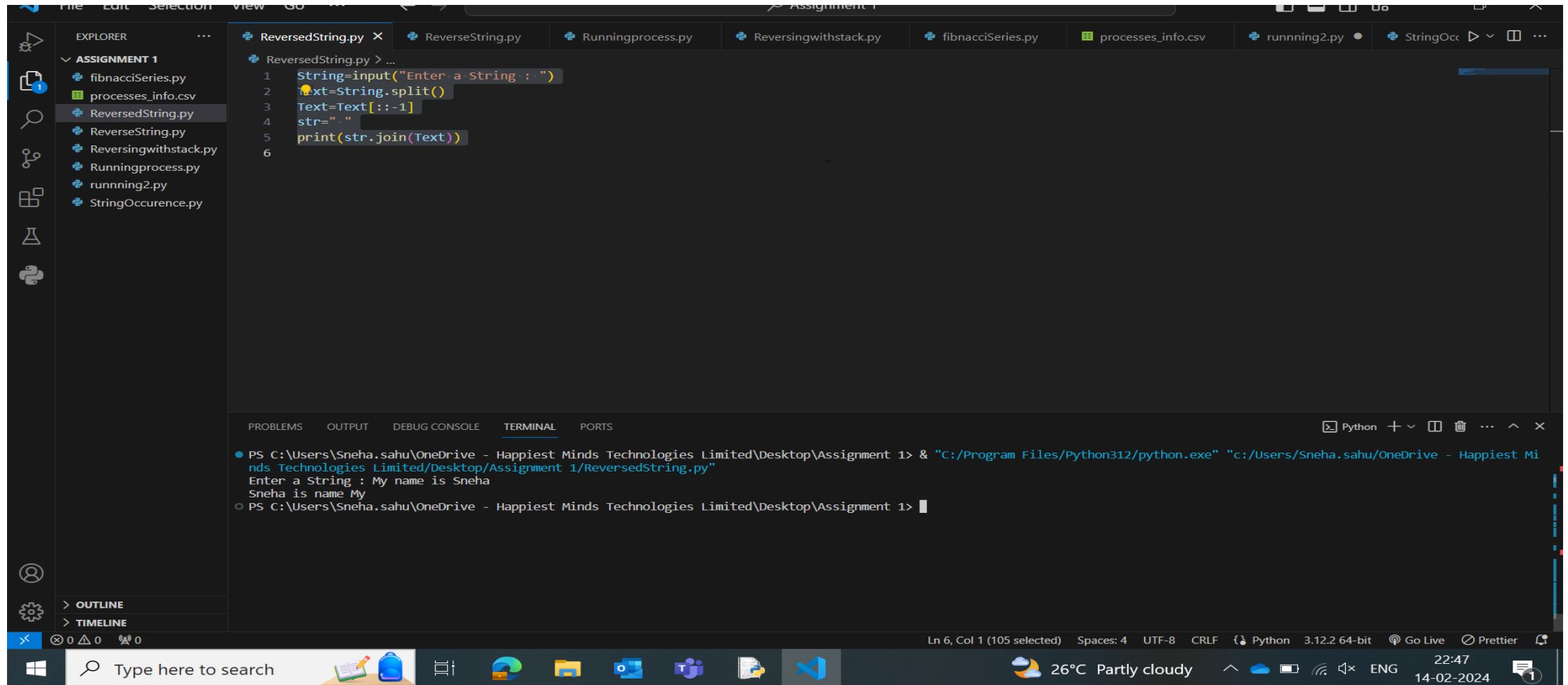
The screenshot displays the Visual Studio Code (VS Code) interface. The Explorer pane on the left shows a project named 'ASSIGNMENT 1' with several files, including 'running2.py'. The main editor area shows the code for 'running2.py', which uses the 'psutil' library to monitor running applications. The code defines a function 'monitor_running_applications()' that iterates through running processes, counts instances of each application name, and prints a warning if any application has more than 2 instances. The script then calls this function. The Terminal pane at the bottom shows the command to run the script and the resulting output, which lists several system processes with warnings indicating more than 2 instances are running.

```
File Edit Selection View Go ... Assignment 1
EXPLORER
ASSIGNMENT 1
  fibonacciSeries.py
  processes_info.csv
  ReversedString.py
  ReverseString.py
  Reversingwithstack.py
  Runningprocess.py
  runnning2.py
  StringOccurence.py

running2.py > ...
1 import psutil
2
3 def monitor_running_applications():
4     app_counts = {}
5     for proc in psutil.process_iter(['name']):
6         app_name = proc.info['name']
7         if app_name in app_counts:
8             app_counts[app_name] += 1
9         else:
10            app_counts[app_name] = 1
11
12     for app_name, count in app_counts.items():
13         if count > 2:
14             print(f"Warning: More than 2 instances of {app_name} running!")
15
16 # Testing the program
17 monitor_running_applications()
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```

Output of Reverse String Question 4 :



The screenshot displays the Visual Studio Code interface. The Explorer sidebar on the left shows a project named 'ASSIGNMENT 1' containing several files: `fibnacciSeries.py`, `processes_info.csv`, `ReversedString.py` (selected), `ReverseString.py`, `Reversingwithstack.py`, `Runningprocess.py`, `running2.py`, and `StringOccurence.py`. The main editor window shows the code in `ReversedString.py`:

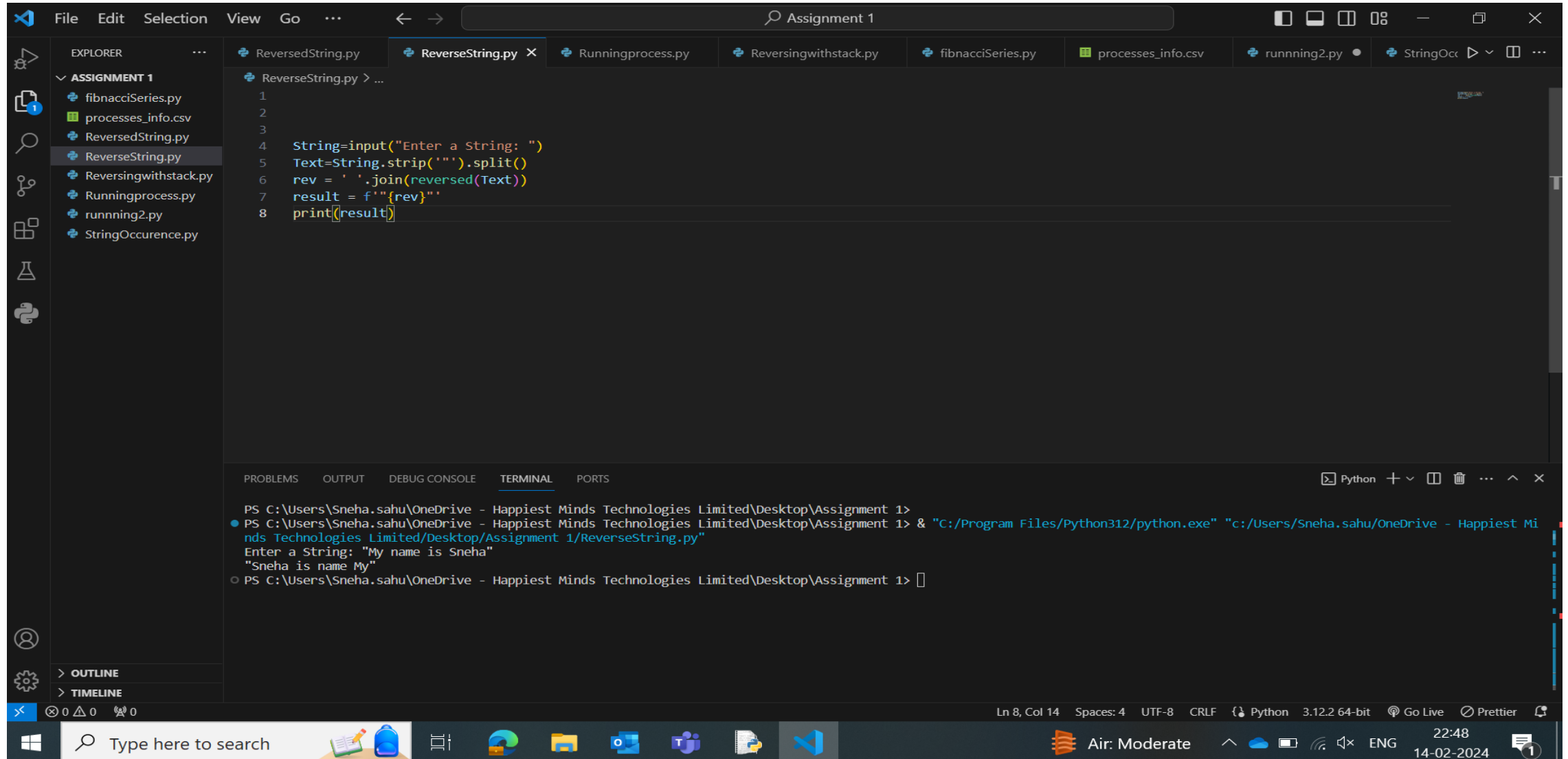
```
1 String=input("Enter a String : ")
2 Text=String.split()
3 Text=Text[::-1]
4 str=" "
5 print(str.join(Text))
6
```

Below the editor, the TERMINAL panel is active, showing the execution of the script:

```
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Minds Technologies Limited/Desktop/Assignment 1/ReversedString.py"
Enter a String : My name is Sneha
Sneha is name My
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>
```

The status bar at the bottom indicates the current cursor position is at Line 6, Column 1 (105 selected), with 4 spaces, UTF-8 encoding, CRLF line endings, Python 3.12.2 64-bit interpreter, and Prettier formatting.

Output of Reverse String Question 4 :



The image shows a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left displays a project named 'ASSIGNMENT 1' containing several Python files. The file 'ReverseString.py' is selected and open in the main editor. The code in this file is as follows:

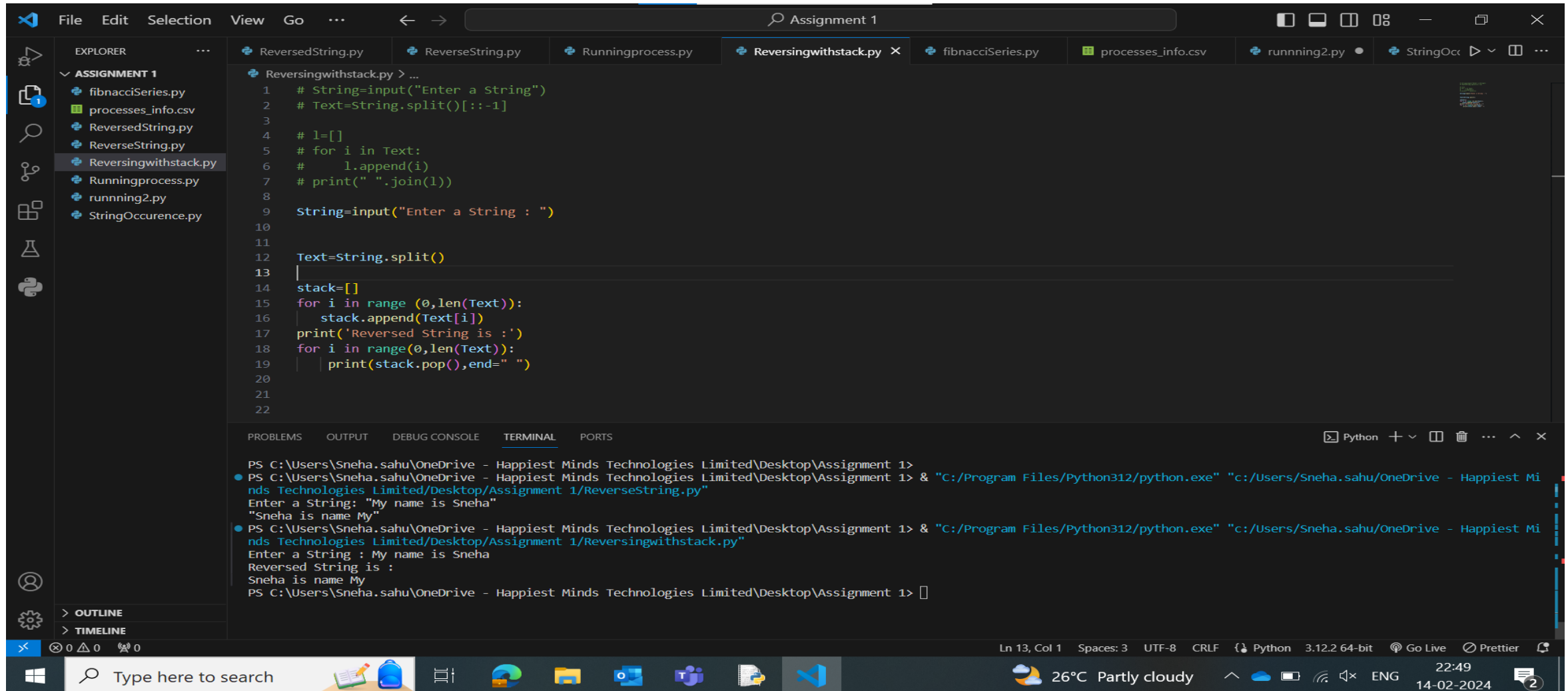
```
1  
2  
3  
4 String=input("Enter a String: ")  
5 Text=String.strip('').split()  
6 rev = ' '.join(reversed(Text))  
7 result = f'{rev}'  
8 print(result)
```

Below the editor, the TERMINAL panel is active, showing the command prompt output of running the script. The output indicates that the user entered 'My name is Sneha' and the program printed 'Sneha is name My'.

```
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>  
• PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Mi  
nds Technologies Limited/Desktop/Assignment 1/ReverseString.py"  
Enter a String: "My name is Sneha"  
"Sneha is name My"  
○ PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> █
```

The status bar at the bottom of the editor shows the current cursor position as 'Ln 8, Col 14' and lists various settings like 'Spaces: 4', 'UTF-8', 'CRLF', and the Python version '3.12.2 64-bit'.

Output of Reverse String Question 4 :



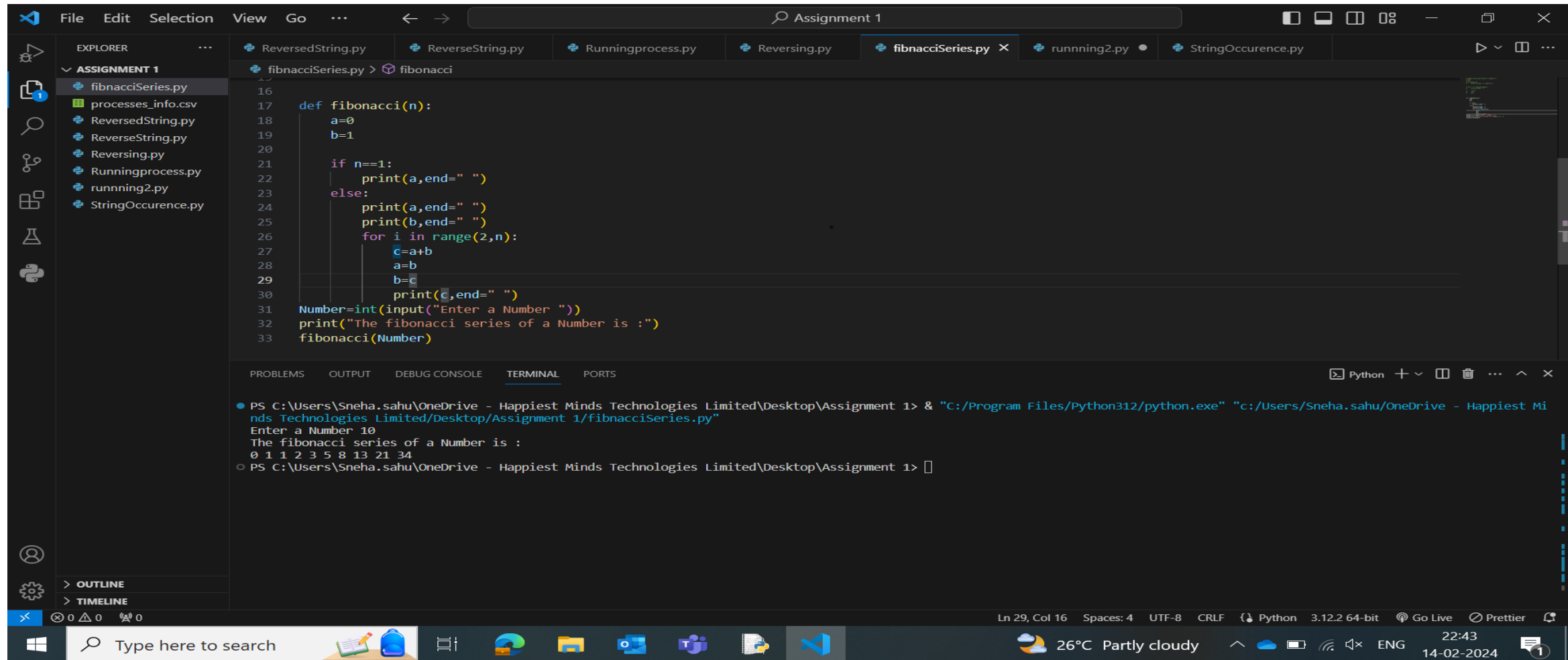
The image shows a Visual Studio Code editor window with a Python script named `Reversingwithstack.py` open. The script uses a stack to reverse a string. The terminal output shows the execution of the script, where the user enters "My name is Sneha" and the program outputs "Reversed String is : Sneha is name My".

```
1 # String=input("Enter a String")
2 # Text=String.split()[::-1]
3
4 # l=[]
5 # for i in Text:
6 #     l.append(i)
7 # print(" ".join(l))
8
9 String=input("Enter a String : ")
10
11
12 Text=String.split()
13
14 stack=[]
15 for i in range (0,len(Text)):
16     stack.append(Text[i])
17 print('Reversed String is :')
18 for i in range(0,len(Text)):
19     print(stack.pop(),end=" ")
20
21
22
```

Terminal Output:

```
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>
• PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Mi
nds Technologies Limited/Desktop/Assignment 1/ReverseString.py"
Enter a String: "My name is Sneha"
"Sneha is name My"
• PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Mi
nds Technologies Limited/Desktop/Assignment 1/Reversingwithstack.py"
Enter a String : My name is Sneha
Reversed String is :
Sneha is name My
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>
```

Output of Fibonacci Seies Question 5:



The screenshot displays a Visual Studio Code editor window with a dark theme. The Explorer sidebar on the left shows a project named 'ASSIGNMENT 1' containing several Python files, with 'fibnacciSeries.py' selected. The main editor area shows the code for 'fibnacciSeries.py', which defines a 'fibonacci' function and uses it to generate a series based on user input. The file explorer lists: 'fibnacciSeries.py', 'processes_info.csv', 'ReversedString.py', 'ReverseString.py', 'Reversing.py', 'Runningprocess.py', 'runnning2.py', and 'StringOccurence.py'. The code in 'fibnacciSeries.py' is as follows:

```
16
17 def fibonacci(n):
18     a=0
19     b=1
20
21     if n==1:
22         print(a,end=" ")
23     else:
24         print(a,end=" ")
25         print(b,end=" ")
26         for i in range(2,n):
27             c=a+b
28             a=b
29             b=c
30         print(c,end=" ")
31 Number=int(input("Enter a Number "))
32 print("The fibonacci series of a Number is :")
33 fibonacci(Number)
```

Below the code editor, the TERMINAL panel shows the execution of the script. The command prompt indicates the file path and the execution of 'python.exe'. The user enters '10', and the program outputs the Fibonacci series: '0 1 1 2 3 5 8 13 21 34'.

```
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1> & "C:/Program Files/Python312/python.exe" "c:/Users/Sneha.sahu/OneDrive - Happiest Mi
nds Technologies Limited/Desktop/Assignment 1/fibnacciSeries.py"
Enter a Number 10
The fibonacci series of a Number is :
0 1 1 2 3 5 8 13 21 34
PS C:\Users\Sneha.sahu\OneDrive - Happiest Minds Technologies Limited\Desktop\Assignment 1>
```

The status bar at the bottom of the editor shows the current position (Ln 29, Col 16), file encoding (UTF-8), line endings (CRLF), and the Python interpreter path (Python 3.12.2 64-bit). The Windows taskbar at the very bottom shows the system clock as 22:43 on 14-02-2024, along with weather information (26°C Partly cloudy) and various system icons.