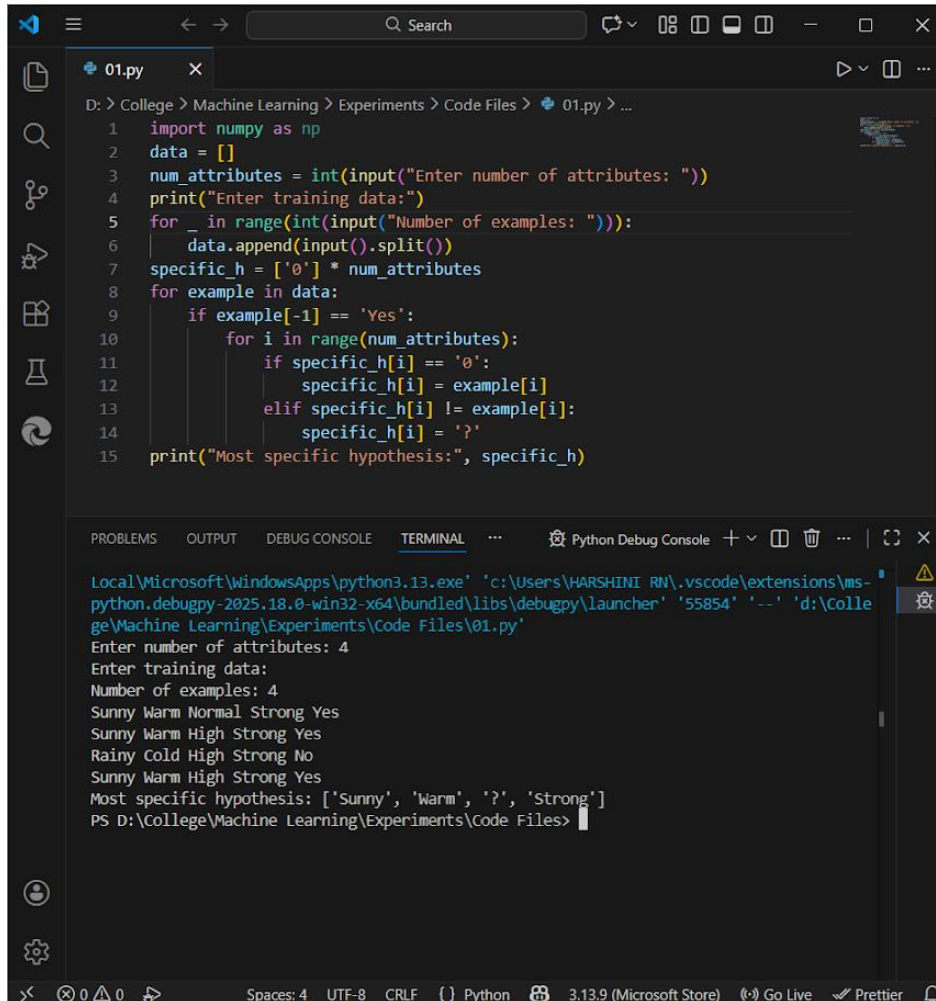


## EXPERIMENT – 1

### OUTPUT:



The image shows a Visual Studio Code editor window with a Python file named '01.py' open. The code in the file is as follows:

```
1 import numpy as np
2 data = []
3 num_attributes = int(input("Enter number of attributes: "))
4 print("Enter training data:")
5 for _ in range(int(input("Number of examples: "))):
6     data.append(input().split())
7 specific_h = ['0'] * num_attributes
8 for example in data:
9     if example[-1] == 'Yes':
10         for i in range(num_attributes):
11             if specific_h[i] == '0':
12                 specific_h[i] = example[i]
13             elif specific_h[i] != example[i]:
14                 specific_h[i] = '?'
15 print("Most specific hypothesis:", specific_h)
```

The terminal output shows the execution of the script with the following input and output:

```
Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\HARSHINI RN\.vscode\extensions\ms-
python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '55854' '...' 'd:\Colle
ge\Machine Learning\Experiments\Code Files\01.py'
Enter number of attributes: 4
Enter training data:
Number of examples: 4
Sunny Warm Normal Strong Yes
Sunny Warm High Strong Yes
Rainy Cold High Strong No
Sunny Warm High Strong Yes
Most specific hypothesis: ['Sunny', 'Warm', '?', 'Strong']
PS D:\College\Machine Learning\Experiments\Code Files>
```

The status bar at the bottom of the editor indicates the following settings: Spaces: 4, UTF-8, CRLF, Python, 3.13.9 (Microsoft Store), Go Live, and Prettier.