

EXPERIMENT – 1

OUTPUT:

```
D: > College > Machine Learning > Experiments > Code Files > 01.py > ...
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)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL ... Python Debug Console + □ □ ... | □ x
Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\HARSHINI RN\.vscode\extensions\ms-python.python.debugpy-2025.18.0-win32-x64\bundled\libs\debugpy\launcher' '55854' --- 'd:\College\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>
```