

Implement and demonstrate the FIND-S algorithm for finding the most specific hypothesis based on a given set of training data samples.

Code

```
data = [
    ['Sunny','Warm','Normal','Strong','Warm','Same','Yes'],
    ['Sunny','Warm','High','Strong','Warm','Same','Yes'],
    ['Rainy','Cold','High','Strong','Warm','Change','No']
]
h = ['0']*(len(data[0])-1)

for row in data:
    if row[-1]=='Yes':
        for i in range(len(h)):
            h[i] = row[i] if h[i]=='0' else ('?' if h[i]!=row[i] else h[i])

print(h)
```

Output

```
File Edit Shell Debug Options Window Help
Python 3.14.2 (tags/v3.14.2:df79316, Dec 5 2025, 17:18:21) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>> ===== RESTART: C:/Users/dines/Downloads/ML_Lab/exp_01.py =====
['Sunny', 'Warm', '?', 'Strong', 'Warm', 'Same']
>>> |
```