

## EX 1

### CODE:

```
data = [  
    ['Sunny', 'Warm', 'Yes'],  
    ['Sunny', 'Cold', 'Yes'],  
    ['Rainy', 'Warm', 'No']  
]  
  
hypothesis = None  
  
for row in data:  
    if row[-1] == 'Yes':  
        if hypothesis is None:  
            hypothesis = row[:-1]  
        else:  
            for i in range(len(hypothesis)):  
                if hypothesis[i] != row[i]:  
                    hypothesis[i] = '?'  
  
print("Most Specific Hypothesis:", hypothesis)
```

# OUTPUT

main.py

Share

Run

```
1
2 data = []
3 ['Sunny', 'Warm', 'Yes'],
4 ['Sunny', 'Cold', 'Yes'],
5 ['Rainy', 'Warm', 'NO']
6 ]
7 hypothesis = None
8 for row in data:
9     if row[-1] == 'Yes':
10         if hypothesis is None:
11             hypothesis = row[:-1]
12         else:
13             for i in range(len(hypothesis)):
14                 if hypothesis[i] != row[i]:
15                     hypothesis[i] = '?'
16 print("Most Specific Hypothesis:", hypothesis)
17
```

Output

Clear

Most Specific Hypothesis: ['Sunny', '?']

=== Code Execution Successful ===