

EX 2

CODING:

```
data = [  
    ['Sunny','Warm','Yes'],  
    ['Sunny','Cold','Yes'],  
    ['Rainy','Warm','No']  
]
```

S = None

G = ['?','?']

for d in data:

    x, y = d[:-1], d[-1]

    if y == 'Yes':

        if S is None: S = x

    else:

        for i in range(len(S)):

            if S[i] != x[i]: S[i] = '?'

    else:

        for i in range(len(G)):

            if G[i] == '?' and S[i] != x[i]:

                G[i] = S[i]

print("S =", S)

print("G =", G)

## OUTPUT:

main.py	Output
<pre>1 data = [ 2     ['Sunny', 'Warm', 'Yes'], 3     ['Sunny', 'Cold', 'Yes'], 4     ['Rainy', 'Warm', 'No'] 5 ] 6 7 S = None 8 G = ['?', '?'] 9 10 for d in data: 11     x, y = d[:-1], d[-1] 12 13     if y == 'Yes': 14         if S is None: S = x 15         else: 16             for i in range(len(S)): 17                 if S[i] != x[i]: S[i] = '?' 18     else: 19         for i in range(len(G)): 20             if G[i] == '?' and S[i] != x[i]: 21                 G[i] = S[i] 22 23 print("S =", S) 24 print("G =", G) 25</pre>	<pre>S = ['Sunny', '?'] G = ['Sunny', '?']  === Code Execution Successful ===</pre>