EXPERIMENT 2:

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

# Number of attributes
num_attr = len(data[0]) - 1

# Initialize S and G
S = None
G = [['?'] * num_attr]

for row in data:
instance = row[:-1]
label = row[-1]

    if label == 'Yes':   # Positive example
if S is None:
        S = instance.copy()
else:          for i in
range(num_attr):              if
S[i] != instance[i]:
            S[i] = '?'

    # Remove inconsistent hypotheses from G
```

```
        G = [g for g in G if all(g[i] == '?' or g[i] == instance[i] for i in range(num_attr))]
else:    # Negative example         new_G = []          for g in G:                for i in
range(num_attr):            if g[i] == '?' and S[i] != '?' and S[i] != instance[i]:
        new_h = g.copy()
new_h[i] = S[i]
new_G.append(new_h)
    G = new_G
```

Output

```
S = ['Sunny', '?']
G = ['Sunny', '?']

=== Code Execution Successful ===
```