exp2.py

```
# This Python code snippet is implementing the Candidate Elimination Algorithm. Here's a breakdown of
# what each part of the code is doing:
import csv

with open("tennis.csv") as f:
    csv_file=csv.reader(f)
    data=list(csv_file)

    s=data[1][:-1]
    g=[['?' for i in range(len(s))] for j in range(len(s))]

    for i in data:
        if i[-1]=="Yes":
            for j in range(len(s)):
                if i[j]!=s[j]:
                    s[j]='?'
                    g[j][j]='?'

        elif i[-1]=="No":
            for j in range(len(s)):
                if i[j]!=s[j]:
                    g[j][j]=s[j]
                else:
                    g[j][j]="?"
        print("\nSteps of Candidate Elimination Algorithm",data.index(i)+1)
        print(s)
        print(g)
    gh=[]
    for i in g:
        for j in i:
            if j!='?':
                gh.append(i)
                break
    print("\nFinal specific hypothesis:\n",s)

    print("\nFinal general hypothesis:\n",gh)

'''output:
Steps of Candidate Elimination Algorithm 1
["'Sunny'", " 'Warm'", " 'High'", " 'Strong'", " 'Warm'", "'Same'"]
[['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]

Steps of Candidate Elimination Algorithm 2
["'Sunny'", " 'Warm'", " 'High'", " 'Strong'", " 'Warm'", "'Same'"]
[['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]

Steps of Candidate Elimination Algorithm 3
["'Sunny'", " 'Warm'", " 'High'", " 'Strong'", " 'Warm'", "'Same'"]
[['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]

Steps of Candidate Elimination Algorithm 4
["'Sunny'", " 'Warm'", " 'High'", " 'Strong'", " 'Warm'", "'Same'"]
```

```
[['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '
?'], ['?','?','?','?','?','?'], ['?','?','?','?','?','?'], ['?','?','?','?','?'
, '?']]

Final specific hypothesis:
 ["'Sunny'", " 'Warm'", " 'High'", " 'Strong'", " 'Warm'", "'Same'"]

Final general hypothesis:
 []

'''
```