For a given set of training data examples stored in a .CSV file, implement and demonstrate the Candidate-Elimination algorithm to output a description of the set of all hypotheses consistent with the training examples.

Lab2data.csv

```
sky,air_temp,humidity,wind,water,forecast,enjoy_sport
sunny,warm,normal,strong,warm,same,yes
sunny,warm,high,strong,warm,same,yes
rainy,cold,high,strong,warm,change,no
sunny,warm,high,strong,cool,change,yes
```

program3.py

```
import csv
file = open('Lab2data.csv')
data = list(csv.reader(file))[1:]
concepts = []
target = []
for i in data:
    # Check if the row has at least one element
    if len(i) >= 1:
       concepts.append(i[:-1])
       target.append(i[-1])
    else:
        print("Invalid data format in CSV file")
specific_h = concepts[0].copy()
general_h = [['?' for i in range(len(specific_h))] for i in
range(len(specific_h))]
for i, h in enumerate(concepts):
    if target[i] == "yes":
       for x in range(len(specific_h)):
           if h[x] != specific_h[x]:
                specific_h[x] = '?'
                general_h[x][x] = '?'
    if target[i] == "no":
        for x in range(len(specific_h)):
            if h[x] != specific_h[x]:
               general_h[x][x] = specific_h[x]
```

OUTPUT

Final Specific:

['sunny', 'warm', '?', 'strong', '?', '?']

Final General:

[['sunny', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?']]