

```
In [8]: ▶ #7 find s
import csv
num_attributes=6
a=[]
with open('enjoysport.csv','r') as csvfile:
    reader=csv.reader(csvfile)
    for row in reader:
        a.append(row)
        print(row)
print("\nInitial Hypothesis")
hypothesis=['0']*num_attributes
print(hypothesis)
for j in range(0,num_attributes):
    hypothesis[j]=a[0][j]
    print("\n Find S:Maximally Specific Hypothesis")
for i in range(0,len(a)):
    if a[i][num_attributes]=='yes':
        for j in range(0,num_attributes):
            if a[i][j]!=hypothesis[j]:
                hypothesis[j]='?'
            else:
                hypothesis[j]=a[i][j]
print("\n For instance no:{0}".format(i),hypothesis)
print("Maximum Specific Hypothesis")
print(hypothesis)
```

```
['i»Example', 'sky', 'Air Temp', 'Humidity', 'wind', 'water', 'Forever', 'EnjoySport']  
['1', 'sunny', 'warm', 'Normal', 'Strong', 'warm', 'same', 'yes']  
['2', 'sunny', 'warm', 'High', 'Strong', 'warm', 'same', 'yes']  
['3', 'Rainy', 'cold', 'High', 'Strong', 'warm', 'change', 'no']  
['4', 'sunny', 'warm', 'High', 'Strong', 'cool', 'change', 'yes']
```

Initial Hypothesis

```
['0', '0', '0', '0', '0', '0']
```

Find S:Maximally Specific Hypothesis

Find S:Maximally Specific Hypothesis

Find S:Maximally Specific Hypothesis

Find S:Maximally Specific Hypothesis

Find S:Maximally Specific Hypothesis

Find S:Maximally Specific Hypothesis

For instance no:4 ['i»Example', 'sky', 'Air Temp', 'Humidity', 'wind', 'water']

Maximum Specific Hypothesis

```
['i»Example', 'sky', 'Air Temp', 'Humidity', 'wind', 'water']
```