```
In [2]:
import csv
import pandas as pd
import numpy as np
In [3]:
data = pd.read_csv('Pgm 1 Tennis Dataset.csv')
a = np.array(data.iloc[:,1:])
print(a)
[['Sunny' 'Hot' 'High' 'Weak' 'No']
 ['Sunny' 'Hot' 'High' 'Strong' 'No']
 ['Overcast' 'Hot' 'High' 'Weak' 'Yes']
 ['Rain' 'Mild' 'High' 'Weak' 'Yes']
 ['Rain' 'Cool' 'Normal' 'Weak' 'Yes']
 ['Rain' 'Cool' 'Normal' 'Strong' 'No']
 ['Overcast' 'Cool' 'Normal' 'Strong' 'Yes']
 ['Sunny' 'Mild' 'High' 'Weak' 'No']
 ['Sunny' 'Cool' 'Normal' 'Weak' 'Yes']
 ['Rain' 'Mild' 'Normal' 'Weak' 'Yes']
 ['Sunny' 'Mild' 'Normal' 'Strong' 'Yes']
 ['Overcast' 'Mild' 'High' 'Strong' 'Yes']
 ['Overcast' 'Hot' 'Normal' 'Weak' 'Yes']
 ['Rain' 'Mild' 'High' 'Strong' 'No']]
In [4]:
numAttr = len(a[0]) - 1
hypothesis = ['0'] * numAttr
print("Initial Hypo : ", hypothesis)
Initial Hypo : ['0', '0', '0', '0']
In [5]:
for i in range(len(a)):
   if a[i][numAttr] == 'Yes':
```

if hypothesis[j] == '0' or hypothesis[j] == a[i][j]:

```
print("Final Hypo : ", hypothesis)
Final Hypo : ['?', '?', '?', '?']
```

else:

for j in range(0, numAttr):

hypothesis[j] = a[i][j]

hypothesis[j] = '?'