In [1]:

```
#Implement the Candidate-Elimination Inductive Learning algorithm.
# Class : MCA II                                          #CA LAB-VII(A): LAB on Machine Learning
```

In [ ]:

```
# Create the dataset and save it using .csv
# Dataset
#Example,Sky,AirTemp,Humidity,Wind,Water,Forecast,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
```

In [5]:

```
import numpy as np
import pandas as pd
```

In [11]:

```
data = pd.read_csv('enjoysport.csv')
concepts = np.array(data.iloc[: ,:])
print("\nInstances are:\n",concepts)
#target = np.array(data.iloc[:,-1])
#print("\nTarget Values are: ",target)


h = ['0','0','0','0','0','0','0']

for row in concepts:
    if row[-1] == 'Yes':
        j = 0

        for col in row:
            if col != 'Yes':
                if col != h[j] and h[j] == '0':
                    h[j] = col
                elif col != h[j] and h[j] != '0':
                     h[j] = '?'

            j = j + 1

print('maximally specific hypothesis :', h)


```

```
Instances are:
 [[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']]
maximally specific hypothesis : ['?', 'Sunny', 'Warm ', '?', 'Strong', '?', '?']
```

In [ ]:

```

```