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In [2]: import numpy as np
 import pandas as pd
 data = pd.read_csv('enjoysport.csv')
 concepts = np.array(data.iloc[:,0:-1])
 print("\nInstances are:\n", concepts)
 target = np.array(data.iloc[:,-1])
 print("\nTarget Values are: ",target)
 def learn(concepts, target):
    specific_h = concepts[0].copy()
    print("\nInitialization of specific_h and genearal_h")
    print("\nSpecific Boundary: ", specific_h)
    general_h = [["?" for i in range(len(specific_h))] for i in range(len(specific_h))]
    print("\nGeneric Boundary: ",general_h)
    for i, h in enumerate(concepts):
        print("\nInstance", i+1 , "is ", h)
       if target[i] == "yes":
           print("Instance is Positive ")
           for x in range(len(specific_h)):
              if h[x]!= specific_h[x]:
                  specific_h[x] ='?'
                  general_h[x][x] = '?'
       if target[i] == "no":
           print("Instance is Negative ")
           for x in range(len(specific_h)):
              if h[x]!= specific_h[x]:
                  general_h[x][x] = specific_h[x]
              else:
                  general_h[x][x] = '?'
       print("Specific Bundary after ", i+1, "Instance is ", specific_h)
       print("Generic Boundary after ", i+1, "Instance is ", general_h)
       print("\n")
    indices = [i for i, val in enumerate(general_h) if val == ['?', '?', '?', '?', '?', '?']]
    for i in indices:
        general_h.remove(['?', '?', '?', '?', '?', '?'])
    return specific_h, general_h
 s_final, g_final = learn(concepts, target)
 print("Final Specific_h: ", s_final, sep="\n")
 print("Final General_h: ", g_final, sep="\n")
 Instances are:
 [['sunny' 'warm' 'normal' 'strong' 'warm' 'same']
  ['sunny' 'warm' 'high' 'strong' 'warm' 'same']
  ['rainy' 'cold' 'high' 'strong' 'warm' 'change']
  ['sunny' 'warm' 'high' 'strong' 'cool' 'change']]
 Target Values are: ['yes' 'yes' 'no' 'yes']
 Initialization of specific_h and genearal_h
 Specific Boundary: ['sunny' 'warm' 'normal' 'strong' 'warm' 'same']
 Generic Boundary: [['?', '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?'], ['?', '?', '?'],
 ['?', '?', '?', '?', '?', '?']]
 Instance 1 is ['sunny' 'warm' 'normal' 'strong' 'warm' 'same']
 Instance is Positive
 Specific Bundary after 1 Instance is ['sunny' 'warm' 'normal' 'strong' 'warm' 'same']
 Generic Boundary after 1 Instance is [['?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?'], ['?', '?', '?', '?'], ['?', '?', '?'], ['?', '?'], ['?', '?']
 '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]
 Instance 2 is ['sunny' 'warm' 'high' 'strong' 'warm' 'same']
 Instance is Positive
 Specific Bundary after 2 Instance is ['sunny' 'warm' '?' 'strong' 'warm' 'same']
'?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]
 Instance 3 is ['rainy' 'cold' 'high' 'strong' 'warm' 'change']
 Instance is Negative
 Specific Bundary after 3 Instance is ['sunny' 'warm' '?' 'strong' 'warm' 'same']
 '?', '?', '?', '?'], ['?', '?', '?', '?', 'same']]
 Instance 4 is ['sunny' 'warm' 'high' 'strong' 'cool' 'change']
 Instance is Positive
 Specific Bundary after 4 Instance is ['sunny' 'warm' '?' 'strong' '?' '?']
 '?', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', '?']]
 Final Specific_h:
 ['sunny' 'warm' '?' 'strong' '?' '?']
 Final General_h:
 [['sunny', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?']]
```