

In [2]:

```
import csv
a=[]
with open("pro2.csv","r") as csvfile:
    fdata=csv.reader(csvfile)
    for row in fdata:
        a.append(row)
        print(row)
num_att=len(a[0])-1
S=['0']*num_att
G=['?']*num_att
print(S)
print(G)
temp=[]
for i in range(0,num_att):
    S[i]=a[0][i]
print(".....")
for i in range(0,len(a)):
    if a[i][num_att]=="Yes":
        for j in range(0,num_att):
            if S[j]!=a[i][j]:
                S[j]='?'
        for j in range(0,num_att):
            for k in range(0,len(temp)):
                if temp[k][j]!=S[j] and temp[k][j]!='?':
                    del temp[k]
    if a[i][num_att]=="No":
        for j in range(0,num_att):
            if a[i][j]!=S[j] and S[j]!='?':
                G[j]=S[j]
                temp.append(G)
                G=['?']*num_att
    print(S)
    if len(temp)==0:
        print(G)
    else:
        print(temp)
    print(".....")
```

```
['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']
['0', '0', '0', '0', '0', '0']
['?', '?', '?', '?', '?', '?']
.....
['sunny', 'warm', 'normal', 'strong', 'warm', 'same']
['?', '?', '?', '?', '?', '?']
.....
['sunny', 'warm', '?', 'strong', 'warm', 'same']
['?', '?', '?', '?', '?', '?']
.....
['sunny', 'warm', '?', 'strong', 'warm', 'same']
[['sunny', '?', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', 'same']]
.....
['sunny', 'warm', '?', 'strong', '?', '?']
[['sunny', '?', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?']]
.....
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In []:

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Address bar: localhost:8889/notebooks/Untitled8.ipynb?kernel_name=python3

Jupyter Untitled8 Last Checkpoint: 11 minutes ago (autosaved) Logout

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```
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            if S[j]!=a[i][j]:
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                if a[i][j]!=S[j] and S[j]!='?':
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                    G=['?']*num_att
            print(S)
            if len(temp)==0:
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Windows taskbar: 12:37 07-11-2020 ENG

```
else:
    print(temp)
    print(".....")
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['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']
['0', '0', '0', '0', '0', '0']
['?', '?', '?', '?', '?', '?']
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['?', '?', '?', '?', '?', '?']
.....
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['?', '?', '?', '?', '?', '?']
.....
['sunny', 'warm', '?', 'strong', 'warm', 'same']
[['sunny', '?', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?'], ['?', '?', '?', '?', '?', 'same']]
.....
['sunny', 'warm', '?', 'strong', '?', '?']
[['sunny', '?', '?', '?', '?', '?'], ['?', 'warm', '?', '?', '?', '?']]
.....
```

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