TITLE : F. S Algorithm

Expt. No. : 1

Date : 16.09.2020.

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Program:

```
import csv.
h=[['0','0','0','0','0','0']]
examples=[]
with open('Training_examples.csv') as csvfile:
    readcsv = csv.reader(csvfile, delimiter=';')
    examples=list(readcsv)
print("The given training examples are:")
for i in examples:
    print(i)
print("The +ve training examples are:")
for i in examples:
    if i[-1]=='Yes':
        print(i)
print("Steps of Finds Algorithm are:")
print(h)
pos_e=[]
for i in examples:
    if i[-1] == 'Yes':
        pos_e = example[:-1]
```

Marks :
Staff :

```
for x in examples:
    if x[-1] == 'Yes':
        j = 0
        h = examples[j]
        print(h[:-1])
        for i in range(0,6):
            if h[i] != examples[j][i]:
                h[i] = '?'
        else:
            j += 1
    else:
        continue.
print("The most specific hypothesis : {h[:-1]}")
```

Output:

The five training examples are:

["Sunny", "Warm", "Normal", "Strong", "Warm", "Same", "Yes"]
['Sunny', 'Warm', 'Strong', 'Warm', 'Same', 'Yes']
['Sunny', 'Warm', 'High', 'Strong', 'Cool', 'Change', 'Yes']

Steps of Find-S Algorithm are:

[['.', '.', '.', '.', '.', '.']]
['Sunny', 'Warm', 'Normal', 'Strong', 'Warm', 'Same']
['Sunny', 'Warm', '?', 'Strong', '?', '?']
['Sunny', 'Warm', '?', 'Strong', '?', '?']

The most specific hypothesis: ['Sunny', 'Warm', '?', 'Strong', '?', '?']