```
import csv
```

```
from google.colab import drive
drive.mount('/content/gdrive')
```

```
Mounted at /content/gdrive
```

```
num_attributes=6
a=[]
print("\n The Given Training Data Set \n")
```

```
 The Given Training Data Set
```

```
with open('/content/student - Sheet1 (1).csv', 'r')as csvfile:
  reader = csv.reader(csvfile)
  for row in reader:
    a.append(row)
    print(row)
```

```
['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']
```

```
print("\n The initial value of hypothesis: ")
hypothesis = ['0'] * num_attributes
print(hypothesis)
```

```
 The initial value of hypothesis:
['0', '0', '0', '0', '0', '0']
```

```
print("\n Find S: Finding a Maximally Specific Hypothesis\n")
```

```
 Find S: Finding a Maximally Specific Hypothesis
```

```
for i in range(0,len(a)):
  if a[i][num_attributes]=='Yes':
    for j in range(0,num_attributes):
      if hypothesis[j]=='0':
        hypothesis[j]=a[i][j]
      if a[i][j] != hypothesis[j]:
        hypothesis[j] = '?'
      else :
        hypothesis[j] = a[i][j]
  print(" For Training instance No:{0} the hypothesis is".format(i),hypothesis)
```

```
Show hidden output
```

```
print("\n The Maximally Specific Hypothesis for a given Training Examples :\n")
print(hypothesis)
```

```
 The Maximally Specific Hypothesis for a given Training Examples :

['Sunny', 'Warm', '?', 'Strong', '?', '?']
```