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

```
from google.colab import files
uploaded=files.upload()
```

```
Choose Files No file chosen    Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving pd1.csv to pd1.csv
```

```
uploaded
```

```
{'pd1.csv': b'Sunny,Warm,Normal ,Strong,Warm,Same ,Yes\r\nSunny,Warm,High,Strc
```

```
import io
data = io.BytesIO(uploaded['pd1.csv'])
```

```
data = pd.read_csv(data)
data
```

	Sunny	Warm	Normal	Strong	Warm.1	Same	Yes
0	Sunny	Warm	High	Strong	Warm	Same	Yes
1	Rainy	Cold	High	Strong	Warm	Change	No
2	Sunny	Warm	High	Strong	Cool	Change	Yes

```
d = np.array(data)[:,:-1]
```

```
d
```

```
array([['Sunny', 'Warm', 'High', 'Strong', 'Warm', 'Same '],
       ['Rainy', 'Cold', 'High', 'Strong', 'Warm', 'Change'],
       ['Sunny', 'Warm', 'High', 'Strong', 'Cool', 'Change']],
      dtype=object)
```

```
target = np.array(data)[:,-1]
target
```

```
array(['Yes', 'No', 'Yes'], dtype=object)
```

```
def train(c,t):
  for i,val in enumerate(t):
    if val=="Yes":
      specific_hypo=c[i].copy()
    break;
  for i,val in enumerate(c):
    if(t[i]=="Yes"):
      for x in range(len(specific_hypo)):
```

```
        if(val[x]!=specific_hypo[x]):
          specific_hypo[x] = '?'
        else:
          pass
    return specific_hypo;


s=train(d,target)


print("The final hypothesis is:",s)
```

```
The final hypothesis is: ['Sunny' 'Warm' 'High' 'Strong' '?' '?']
```