



```
import pandas as pd
import numpy as np
data=pd.read_csv('/content/drive/MyDrive/Colab Notebooks/AI Lab/data.csv')
data
```

	sky	air temp	humidity	wind	water	forecast	enjoy sport	
0	sunny	warm	normal	strong	warm	same	yes	
1	sunny	warm	high	strong	warm	same	yes	
2	rainy	cold	high	strong	warm	change	no	
3	sunny	warm	high	strong	cool	change	yes	

```
# leave the last column
concept=np.array(data)[:,:-1]
# only access the last column
target=np.array(data)[:,-1]
print(concept)
print(target)

[['sunny' 'warm' 'normal' 'strong' 'warm' 'same']
 ['sunny' 'warm' 'high' 'strong' 'warm' 'same']
 ['rainy' 'cold' 'high' 'strong' 'warm' 'change']
 ['sunny' 'warm' 'high' 'strong' 'cool' 'change']]
['yes' 'yes' 'no' 'yes']
```

```
def train(concept,target):
    for i,value in enumerate(target):
        if value.lower()=='yes':
            specific_h=concept[i].copy()
            break
    for i,value in enumerate(concept):
        if target[i].lower()=='yes':
            for j in range(len(specific_h)):
                if value[j]!=specific_h[j]:
                    specific_h[j]='?'
            else:
                pass
    return specific_h
```

```
result=train(concept,target)
```

```
print(result)
```

```
['sunny' 'warm' '?' 'strong' '?' '?']
```

```
day=input("Enter 6 word to check:")
```

```
day=day.split()
```

```
check=True
```

```
Enter 6 word to check:sunny warm normal strong warm same
```

```
for i in range(len(result)):
```

```
    if result[i]=='?'or result[i]==day[i]:
```

```
        check=True
```

```
    else:
```

```
        check=False
```

```
        break
```

```
if check:
```

```
    print("Enjoy sport.")
```

```
else:
```

```
    print("Not enjoy sport.")
```

```
Enjoy sport.
```