```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
```

```
df1= pd.read_csv("/content/Data.csv")
df1
```

	Country	Age	Salary	Purchased
0	France	44.0	72000.0	No
1	Spain	27.0	48000.0	Yes
2	Germany	30.0	54000.0	No
3	Spain	38.0	61000.0	No
4	Germany	40.0	NaN	Yes
5	France	35.0	58000.0	Yes
6	Spain	NaN	52000.0	No
7	France	48.0	79000.0	Yes
8	Germany	50.0	83000.0	No
9	France	37.0	67000.0	Yes

```
x= df1.iloc[:,-1].values #dependent
x
```

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

```
y= df1.iloc[:,:-1].values #indepent
y
```

```
array([['France', 44.0, 72000.0],
       ['Spain', 27.0, 48000.0],
       ['Germany', 30.0, 54000.0],
       ['Spain', 38.0, 61000.0],
       ['Germany', 40.0, nan],
       ['France', 35.0, 58000.0],
       ['Spain', nan, 52000.0],
       ['France', 48.0, 79000.0],
       ['Germany', 50.0, 83000.0],
       ['France', 37.0, 67000.0]], dtype=object)
```

```
df2= pd.read_csv("/content/weather.csv")
df2
```

	Season	Weather	Tourist	Labels
0	Summer	Pleasant	like	Yes
1	Summer	Hot	dislike	Yes
2	Summer	Pleasant	like	Yes
3	winter	Harsh	like	Yes
4	winter	Pleasant	like	No
5	autumn	Dry	dislike	Yes
6	autumn	Pleasant	dislike	Yes
7	autumn	Harsh	NaN	No

```
x= df2.iloc[:,-1].values #dependent
x
```

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

```
y= df2.iloc[:,:-1].values #indepent
y
```

```
array([['Summer', 'Pleasant', 'like'],
       ['Summer', 'Hot', 'dislike'],
       ['Summer', 'Pleasant', 'like'],
       ['winter', 'Harsh', 'like'],
       ['winter', 'Pleasant', 'like'],
       ['autumn', 'Dry', 'dislike'],
       ['autumn', 'Pleasant', 'dislike'],
       ['autumn', 'Harsh', nan],
       ['Spring', 'Pleasant', 'like']], dtype=object)
```

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