```
In [43]:
import pandas as pd
import numpy as np
df =pd.read csv('KNN.csv')
df
Out[43]:
  x y
         class
0 2 4 negative
1 4 2 negative
2 4 4 positive
3 4 6 negative
4 6 2 positive
5 6 4 negative
In [36]:
x = df.iloc[:,:-1].values
y = df.iloc[:,2].values
In [37]:
Х
Out[37]:
array([[2, 4],
       [4, 2],
       [4, 4],
       [4, 6],
       [6, 2],
       [6, 4]])
In [38]:
У
Out[38]:
array(['negative', 'negative', 'positive', 'negative', 'positive',
       'negative'], dtype=object)
In [39]:
from sklearn.neighbors import KNeighborsClassifier as knn
cf = knn(n_neighbors=3,p=2, metric='euclidean')
cf.fit(x,y)
Out[39]:
KNeighborsClassifier(metric='euclidean', n_neighbors=3)
In [40]:
x test = np.array([6,6])
y_pred = cf.predict([x_test])
y_pred
Out[40]:
array(['negative'], dtype=object)
```

```
In [41]:

cf = knn(n_neighbors=3, weights="distance",p=2, metric='euclidean')
cf.fit(x,y)

Out[41]:

KNeighborsClassifier(metric='euclidean', n_neighbors=3, weights='distance')

In [42]:

x_test = np.array([6,6])
y_pred = cf.predict([x_test])
y_pred

Out[42]:
array(['negative'], dtype=object)

In []:
```