```
In [ ]: import numpy as np
        import pandas as pd
        import matplotlib.pyplot as plt
        import seaborn as sns
In [ ]: df = pd.read_csv('customer.csv')
In [ ]: df.head()
Out[]:
           gender age salary purchased
                                       0
                    19 19000
        0
             Male
             Male
                    35 20000
        1
                                       0
        2 Female
                    26 43000
                                       0
        3 Female
                    27 57000
                                       0
                                       0
             Male
                    19 76000
In [ ]: from sklearn.preprocessing import StandardScaler
        from sklearn.model_selection import train_test_split
        from sklearn.neighbors import KNeighborsClassifier
In [ ]: att = df[['age' ,'salary']]
        label = df['purchased']
        att_train , att_test , class_train , class_test = train_test_split(att, label,
                                                                            random_state=0,t
        scaler = StandardScaler()
        scaler.fit(att_train)
        att_train[['age' ,'salary']] = scaler.transform(att_train)
        model = KNeighborsClassifier(n_neighbors=3)
        model.fit(att_train, class_train)
        model.score( scaler.transform(att_test), class_test)
        # model.score( att_train, class_train)
       c:\Users\pawar\Desktop\Code\DS\.venv\Lib\site-packages\sklearn\base.py:493: UserWarn
       ing: X does not have valid feature names, but KNeighborsClassifier was fitted with f
       eature names
         warnings.warn(
Out[]: 0.90833333333333333
In [ ]: resule = pd.concat([att_test, class_test],axis=1)
        resule['predict'] = model.predict(scaler.transform(att_test))
        resule
```

c:\Users\pawar\Desktop\Code\DS\.venv\Lib\site-packages\sklearn\base.py:493: UserWarn
ing: X does not have valid feature names, but KNeighborsClassifier was fitted with f
eature names

warnings.warn(

## Out[]:

	age	salary	purchased	predict
132	30	87000	0	0
309	38	50000	0	0
341	35	75000	0	0
196	30	79000	0	0
246	35	50000	0	0
•••				
216	49	65000	0	0
259	45	131000	1	1
49	31	89000	0	0
238	46	82000	0	1
343	47	51000	1	0

120 rows × 4 columns