1.Read the data

2.Check the data or preprocess the data

3. Seperate input labels and target or output labels

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4. Seperate the train and test data(opt)
   5.Apply the algorithm
   6. Train the model by giving input and output values
   7.test the data
   8. Evalute the model
In [1]:
 1 #1.read the data
 2 import pandas as ps
 3 data = ps.read_csv("shirtsize.csv")
 4 print(data)
In [3]:
 1 #2.Check the data
    data.isnull().sum()
Out[3]:
Height
          0
Weight
          0
Size
dtype: int64
In [4]:
    data.columns
Out[4]:
Index(['Height', 'Weight', 'Size'], dtype='object')
In [5]:
    #3. Seperate the input and output
 2 input data = data[['Height','Weight']]
   input_data
                                             . . .
In [6]:
  1 output_data = data['Size']
  2 output_data
```

In target columns must the values in int or float format only

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In [8]:
 1 tran_output = ps.get_dummies(data['Size'],drop_first=True)
 2 tran_output
In [9]:
 1 #5.
 2 data.shape
Out[9]:
(18, 3)
In [10]:
 1 #5.Split the train and test optional
 2 #6.Apply the Algorithm
   from sklearn.neighbors import KNeighborsClassifier
   knn = KNeighborsClassifier(n_neighbors=)
In [11]:
 1 #7.train the model by using fit method
   knn.fit(input_data,tran_output)
In [12]:
 1 # test the model or algorithm by using predict method
   pred_values = knn.predict(input_data)
In [13]:
   from sklearn.metrics import accuracy_score
    accuracy_score(tran_output,pred_values)
Out[13]:
0.8333333333333334
In [14]:
   from sklearn.metrics import confusion_matrix
   confusion_matrix(tran_output,pred_values)
Out[14]:
array([[10, 1],
       [ 2, 5]], dtype=int64)
In [15]:
 1 knn.predict([[158,120]])
Out[15]:
```

array([0], dtype=uint8)

In []:

1