```
In [2]: import pandas as pd
In [3]: df=pd.read_csv("C:\\Users\\banga\\gitremoterepo\\Ex-02_DS_Outlier\\weight.csv")
In [4]: df
Out[4]:
                         Height
                                    Weight
               Gender
                 Male 73.847017 241.893563
                 Male 68.781904 162.310473
                 Male 74.110105 212.740856
                 Male 71.730978 220.042470
                 Male 69.881796 206.349801
          9995 Female 66.172652 136.777454
               Female 67.067155 170.867906
               Female 63.867992 128.475319
               Female 69.034243 163.852461
          9999 Female 61.944246 113.649103
         10000 rows × 3 columns
In [5]: df.drop("Gender",axis=1,inplace=True)
In [6]: df
Out[6]:
                  Height
                            Weight
            0 73.847017 241.893563
            1 68.781904 162.310473
            2 74.110105 212.740856
            3 71.730978 220.042470
            4 69.881796 206.349801
          9995 66.172652 136.777454
          9996 67.067155 170.867906
          9997 63.867992 128.475319
          9998 69.034243 163.852461
          9999 61.944246 113.649103
         10000 rows × 2 columns
In [7]: # df=df.drop("Gender", axis=1, inplace=True)
```

```
In [8]: df.boxplot()

Out[8]: <AxesSubplot:>

250
200
150
Height Weight
```

```
Out[13]:
                             Weight
                   Height
              0 73.847017
                          241.893563
              1 68.781904 162.310473
              2 74.110105 212.740856
              3 71.730978 220.042470
              4 69.881796 206.349801
            9995 66.172652 136.777454
            9996 67.067155 170.867906
            9997 63.867992 128.475319
            9998 69.034243 163.852461
            9999 61.944246 113.649103
           10000 rows × 2 columns
In [14]: df1=df.copy()
In [15]: df1=df1[(z<3).all(axis=1)]</pre>
 In [16]: df1.boxplot()
 Out[16]: <AxesSubplot:>
            250
            225
             200
            175
            150
            125
             100
```

Weight

In [13]: df

75

50

Height

```
In [17]: df1
Out[17]:
                             Weight
                  Height
             0 73.847017 241.893563
             1 68.781904 162.310473
             2 74.110105 212.740856
             3 71.730978 220.042470
             4 69.881796 206.349801
           9995 66.172652 136.777454
           9996 67.067155 170.867906
           9997 63.867992 128.475319
           9998 69.034243 163.852461
           9999 61.944246 113.649103
          9993 rows × 2 columns
In [18]: #interquartile method
          df2=df.copy()
In [19]: q1=df2.quantile(0.25)
In [20]: q3=df2.quantile(0.75)
In [21]: IQR=q3-q1
          IQR
Out[21]: Height
                      5.668641
          Weight
                     51.351474
          dtype: float64
 In [22]: IQR.Height
 Out[22]: 5.668641245615746
In [23]: df2_new=df2[((df2>=q1-1.5*IQR)&(df2<=q3+1.5*IQR)).all(axis=1)]</pre>
```

```
In [24]: df2
Out[24]:
                   Height
                             Weight
             0 73.847017 241.893563
             1 68.781904 162.310473
             2 74.110105 212.740856
             3 71.730978 220.042470
             4 69.881796 206.349801
          9995 66.172652 136.777454
          9996 67.067155 170.867906
          9997 63.867992 128.475319
          9998 69.034243 163.852461
          9999 61.944246 113.649103
         10000 rows × 2 columns
In [ ]:
```