```
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]:
               Gender
                          Height
                                    Weight
                 Male 73.847017 241.893563
            0
                  Male 68.781904 162.310473
                  Male 74.110105 212.740856
                  Male 71.730978 220.042470
                  Male 69.881796 206.349801
               Female 66.172652 136.777454
                Female 67.067155 170.867906
          9997 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
            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
```

In [13]: df Out[13]: 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 [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

Height

Weight

```
In [17]: df1
Out[17]:
                  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
          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 [ ]:
```