```
import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         from statsmodels.distributions.empirical_distribution import ECDF
In [5]: df=pd.read_csv("weight-height.csv")
 Out[5]:
                                  Weight
              Gender
                        Height
            0 Male 73.847017 241.893563
            1 Male 68.781904 162.310473
            2 Male 74.110105 212.740856
            3 Male 71.730978 220.042470
            4 Male 69.881796 206.349801
         9995 Female 66.172652 136.777454
         9996 Female 67.067155 170.867906
         9997 Female 63.867992 128.475319
         9998 Female 69.034243 163.852461
         9999 Female 61.944246 113.649103
        10000 rows × 3 columns
 In [7]: sns.histplot(df["Height"])
         plt.show()
         500 -
          400 -
         300 -
         200 -
         100
In [9]: sns.displot(df["Height"], kde=True)
         plt.show()
         500 -
         400 -
         300 -
         100
In [10]: sns.kdeplot(df["Height"])
         plt.show()
         0.08
         0.06
        മ് 0.04
         0.02
         0.00
                  55
                                Height
In [11]: df["Height"].describe()
Out[11]: count
                 10000.000000
         mean
                     66.367560
                     3.847528
         std
                     54.263133
         min
                     63.505620
                     66.318070
         50%
         75%
                     69.174262
                    78.998742
         Name: Height, dtype: float64
In [14]: e=ECDF(df["Height"])
In [15]: plt.plot(e.x,e.y)
Out[15]: [<matplotlib.lines.Line2D at 0x7f984c96a9d0>]
        1.0
        0.8
        0.6
        0.4
        0.2
In [ ]:
In [ ]:
In [ ]:
In [16]: sns.kdeplot(df["Height"])
         plt.show()
         0.08
         0.06
        o.04
         0.02
         0.00
                                Height
In [17]: sns.kdeplot(df["Height"]*2.54)
         plt.show()
         0.035
         0.030
         0.025
        £ 0.020 ·
        ۵ <sub>0.015</sub> .
         0.010 -
         0.005
         0.000 130 140 150 160
                                        180
                                 170
                                             190 200
                                 Height
In [18]: z_score= (df["Height"]-df["Height"].mean())/df["Height"].std()
         z_score
Out[18]: 0
                 1.943964
                 0.627505
                 2.012343
                 1.393991
                 0.913375
                   . . .
         9995
                -0.050658
         9996
                0.181830
         9997
               -0.649655
         9998
               0.693090
         9999 -1.149651
         Name: Height, Length: 10000, dtype: float64
In [19]: sns.kdeplot(z_score)
         plt.show()
         0.35
         0.30
         0.25
        0.20
        ۵<sub>0.15</sub>
         0.10
         0.05
         0.00
                                Height
In [21]: z_score1= ((df["Height"]*2.54)-(df["Height"]*2.54).mean())/(df["Height"]*2.54).std()
         z_score1
Out[21]: 0
                 1.943964
                 0.627505
                 2.012343
                1.393991
                 0.913375
                  . . .
         9995
                -0.050658
         9996
                 0.181830
         9997
               -0.649655
         9998
               0.693090
         9999 -1.149651
         Name: Height, Length: 10000, dtype: float64
In [22]: sns.kdeplot(z_score1)
         plt.show()
         0.35
         0.30
         0.25
        훈 0.20
        o.15
         0.10
         0.05
         0.00
In [ ]:
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In [ ]:
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 In [ ]:
 In [ ]:
In [ ]:
In [ ]:
In [ ]:
```

In [12]: import numpy as np

In []:

In []:

In []:

In []: