```
In [23]:
                  import pandas as pd
                  import numpy as np
                  import matplotlib.pyplot as plt
                  from sklearn.linear_model import LinearRegression
                  from sklearn import metrics
                  from sklearn.model_selection import train_test_split
In [24]:
                  data =pd.read_csv('Sindrom Zoom Fatique Bagi Mahasiswa.csv')
                  data
                                                                            Umur Jenis Kelamin P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13
                                             Nama lengkap
Out[24]:
                                              Naufal Raihan 19 - 22 tahun
                                                                                             Laki - laki
                    0
                                                                                                                                            3
                                                                                             Laki - laki
                                                                                                                             1 2 1 1
                    1
                                                     VaroVero 19 - 22 tahun
                                                                                                                         2
                    2 Varrel Rizalvyno Zaidan Firdaus 19 - 22 tahun
                    3
                                   Citra Annisaa Nurul Ain 19 - 22 tahun
                                                                                                                                            3
                                                                                                                                                   2
                                                                                           Perempuan
                    4
                                   Fitrian Alif Putra Iantono 19 - 22 tahun
                                                                                             Laki - laki
                                                                                                             3
                                                                                                                         3
                                                                                                                                      1
                                                                                                                                            3
                                                                                                                                                   2
                                                                                                                                                                                               3
                 104
                                                  Siti Rohani 19 - 22 tahun
                                                                                           Perempuan
                                                                                          Perempuan
                                                                                                                                                                                               3
                 105
                                SAFIRA AULIA FARHANI
                                                                      < 19 tahun
                 106
                                   Galuh Alifia Damayanti 19 - 22 tahun
                                                                                                                                2
                                                                                                                                            2 1
                                                                                           Perempuan
                 107
                                                          Gue 19 - 22 tahun
                                                                                           Perempuan
                                                                                                                         3
                                                                                                                                3
                                                                                                                                      3
                                                                                                                                            3
                                                                                                                                                  3
                                                                                                                                                         3
                                             Sherly Sukanto 19 - 22 tahun
                 108
                                                                                           Perempuan
                                                                                                                                    2
                109 rows × 16 columns
In [25]:
                  x = data[['P1', 'P2', 'P3', 'P4', 'P5', 'P6', 'P7', 'P8', 'P10', 'P11', 'P12', 'P13']].values
                  y = data['P9'].values
In [26]:
                  x_{train}, x_{test}, y_{train}, y_{test} = train_{test}, train_{te
In [27]:
                  regressor = LinearRegression()
                  regressor.fit(x_train, y_train)
                LinearRegression()
Out[27]:
In [28]:
                  print(regressor.intercept_)
                 0.5889551466086071
In [29]:
                  print(regressor.coef_)
                 [ 0.08810205 -0.07097558  0.05078346 -0.00352036  0.21615227  0.10422511
                    In [30]:
                  coeff_df = pd.DataFrame(regressor.coef_, ['P1', 'P2', 'P3', 'P4', 'P5', 'P6', 'P7', 'P8', 'P10', 'P11', 'P12', 'P13'], columns=['Coefficient'])
                  coeff_df
                         Coefficient
Out[30]:
                  P1
                           0.088102
                          -0.070976
                   P2
                            0.050783
                   P3
                           -0.003520
                           0.104225
                   P6
                           0.152704
                   P8
                           0.032847
                 P10
                           0.215180
                 P11
                           -0.337457
                 P12
                           0.054142
                            0.239238
                 P13
In [31]:
                  Y_pred = regressor.predict(x_test)
In [32]:
                  df = pd.DataFrame({'Actual': y_test, 'Predicted': Y_pred})
Out[32]:
                       Actual Predicted
                  0
                              2 2.199856
                  1
                              3 1.760710
                  2
                              3 2.598038
                              2 2.471943
                              2 2.176022
                              2 2.071797
                  6
                              3 2.513436
                              3 2.509936
                              2 1.431925
                  8
                              2 2.068277
                 10
                              2 2.120910
In [33]:
                  print('Mean Absolute Error:', metrics.mean_absolute_error(y_test, Y_pred))
                  #print('Mean Squared Error:', metrics.mean_squared_error(y_test, Y_pred))
                  print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(y_test, Y_pred)))
                 Mean Absolute Error: 0.3904327375794796
                 Root Mean Squared Error: 0.5058855096258789
 In [ ]:
```