```
In [3]:
           assign = pd.read_csv("Desktop\StudentsPerformance.csv")
 In [4]:
           assign
 Out[4]:
               gender race/ethnicity parental level of education
                                                                lunch test preparation course math score reading score writing score
             0 female
                                                              standard
                                                                                                    72
                                                                                                                72
                                                                                                                             74
                            group B
                                            bachelor's degree
                                                                                      none
                                                              standard
                                                                                                    69
                                                                                                                 90
                                                                                                                             88
            1 female
                            group C
                                               some college
                                                                                  completed
             2 female
                                             master's degree
                                                              standard
                                                                                                    90
                                                                                                                95
                                                                                                                             93
                            group B
                                                                                      none
                                                                                                    47
                                                                                                                57
                                                                                                                             44
                 male
                                           associate's degree free/reduced
                                                                                      none
                            group A
                                                                                                    76
                                                                                                                78
                 male
                            group C
                                               some college
                                                              standard
                                                                                      none
                                                                                                                             75
                                                                                                                99
           995
               female
                            group E
                                             master's degree
                                                              standard
                                                                                  completed
                                                                                                    88
                                                                                                                             95
                                                 high school free/reduced
                                                                                                    62
                                                                                                                 55
                                                                                                                             55
          996
                 male
                            group C
                                                                                      none
                                                                                                                71
                                                 high school free/reduced
                                                                                                    59
                                                                                                                             65
           997
               female
                            group C
                                                                                  completed
                                                                                                    68
                                                                                                                78
                                                                                                                             77
          998
               female
                            group D
                                               some college
                                                              standard
                                                                                  completed
                                               some college free/reduced
                                                                                                    77
                                                                                                                86
                                                                                                                             86
          999 female
                            group D
                                                                                      none
          1000 rows × 8 columns
 In [5]:
           # Scatter plot with parental level of education against math score
           plt.scatter(assign['parental level of education'], assign['math score'])
           # Adding Title to the Plot
           plt.title("Scatter Plot")
           # Setting the X and Y labels
           plt.xlabel('parental level of education')
           plt.ylabel('math score')
           plt.show()
                                    Scatter Plot
             100
              80
          math score
              60
              20
            bachelor's degreene collegræster's degreeiate's degreen school
                               parental level of education
In [15]:
           # Bar chart with day against tip
           plt.bar(assign['parental level of education'], assign['math score'])
           plt.title("Bar Chart")
           # Setting the X and Y labels
           plt.xlabel('parental level of education')
           plt.ylabel('math score')
           # Adding the legends
           plt.show()
                                     Bar Chart
             100
             80
          math score
              20
               bachelor's desgree collegeter's despreiate's degree schoole high school
                               parental level of education
           # histogram of reading score
           plt.hist(assign['reading score'])
           plt.title("Histogram")
           # Adding the legends
           plt.show()
                                  Histogram
           200
           150
           100
            50
                                                 80
                                                           100
In [18]:
           import seaborn as sns
In [20]:
           # draw lineplot
           sns.lineplot(x="gender", y="reading score", data=assign)
           # setting the title using Matplotlib
           plt.title('Title using Matplotlib Function')
           plt.show()
                           Title using Matplotlib Function
             74
             72
          ading score
             66
             64
               female
                                                            male
                                     gender
In [21]:
           sns.barplot(x='gender', y='reading score', data=assign,
                         hue='lunch')
           plt.show()
             80
             70
             60
          reading score
30
             20
                     lunch
                 standard
             10
                  free/reduced
                                                  male
                         female
                                     gender
```

import pandas as pd

from matplotlib import pyplot as plt

In [2]:

In [ ]: