```
In [59]: import numpy as np
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sn
          from sklearn import linear_model
In [143... df = pd.read_csv("Dataset4.csv")
Out[143...
            experience test_score(out of 10) interview_score(out of 10) salary($)
          0
                 NaN
                                    8.0
                                                           9 50000
                  NaN
                                    8.0
                                                           6 45000
          2
                  five
                                    6.0
                                                          7 60000
                                   10.0
                                                               65000
                  two
                                    9.0
                                                           6
                                                               70000
                seven
                                    7.0
                                                               62000
                  ten
                                   NaN
                                                          7 72000
                                                           8 80000
                eleven
                                    7.0
In [157... df['test_score(out of 10)'].median()
Out[157... 8.0
In [168... df['test_score(out of 10)'].fillna(df['test_score(out of 10)'].median())
Out[168... 0 8.0
               8.0
               6.0
               10.0
               9.0
               7.0
               8.0
               7.0
          Name: test_score(out of 10), dtype: float64
In [170... df
            experience test_score(out of 10) interview_score(out of 10) salary($)
                                    8.0
                                                           9 50000
          0
                  zero
                                    8.0
                                                           6 45000
                  zero
          2
                                    6.0
                                                          7 60000
                  five
                                   10.0
                                                               65000
                  two
                                    9.0
                                                               70000
                                                           6
                seven
                                    7.0
                                                               62000
                  ten
                                    8.0
                                                          7 72000
                                                           8 80000
                eleven
In [172... | df['experience'] = df['experience'].fillna('zero')
In [174... df
Out[174...
            experience test_score(out of 10) interview_score(out of 10) salary($)
                                                          9 50000
          0
                  zero
                                    8.0
                                                           6 45000
                                    8.0
                  zero
          2
                  five
                                    6.0
                                                               60000
                                   10.0
                                                               65000
                  two
                                    9.0
                                                               70000
                seven
                                    7.0
                                                               62000
                 three
                  ten
                                    8.0
                                                           7 72000
                                    7.0
                                                           8 80000
                eleven
In [176... !pip install word2number
          # i used this package to change word number to integer numbers ( example: " two " will bw printed as 2)
          from word2number import w2n
        Requirement already satisfied: word2number in c:\users\mypc\anaconda3\lib\site-packages (1.1)
In [178... def convert_word_to_number(word_number):
                  return w2n.word_to_num(word_number)
              except ValueError:
                  return None
          df['experience'] = df['experience'].apply(convert_word_to_number)
In [180... df
            experience test_score(out of 10) interview_score(out of 10) salary($)
          0
                                                               50000
                                    8.0
                                                           6 45000
                                    8.0
          2
                    5
                                    6.0
                                                               60000
                    2
                                   10.0
                                                               65000
          3
                                                          10
                    7
                                    9.0
                                                               70000
                    3
                                    7.0
                                                               62000
                                                          10
                   10
                                    8.0
                                                               72000
                   11
                                    7.0
                                                               80000
In [182... df.isna().sum()
Out[182... experience
                                        0
                                        0
          test_score(out of 10)
                                       0
          interview_score(out of 10)
          salary($)
          dtype: int64
In [184... reg = linear_model.LinearRegression()
          reg.fit(df.drop(columns=['salary($)']), df['salary($)'])
Out[184... ▼ LinearRegression
          LinearRegression()
In [186... reg.coef_
Out[186... array([2812.95487627, 1845.70596798, 2205.24017467])
In [188... reg.intercept_
Out[188... 17737.26346433768
In [190... reg.predict([[2,9,6]])
        C:\Users\MyPc\anaconda3\Lib\site-packages\sklearn\base.py:493: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
Out[190... array([53205.96797671])
In [192... reg.predict([[12,10,10]])
        C:\Users\MyPc\anaconda3\Lib\site-packages\sklearn\base.py:493: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
          warnings.warn(
Out[192... array([92002.18340611])
In [194... 2812.95487627*12 + 1845.70596798 * 10 + 2205.24017467 * 10 +17737.26346433768
```

Out[194... 92002.18340607767