```
In [76]:
          import numpy as np
          from sklearn import linear_model
          from word2number import w2n
          df=pd.read_excel('salary.xlsx')
In [77]:
          df
In [78]:
Out[78]:
            experience test_score(out of 10) interview_score(out of 10) salary($)
                                                               50000
                 NaN
                                    8.0
          0
         1
                 NaN
                                    8.0
                                                               45000
          2
                  five
                                    6.0
                                                               60000
                                   10.0
                                                               65000
                  two
                                                               70000
          4
                                    9.0
                                                          6
                seven
                                                               62000
                 three
                                    7.0
          6
                                                               72000
                  ten
                                   NaN
                eleven
                                    7.0
                                                               80000
          df.experience=df.experience.fillna("zero")
In [79]:
In [80]:
          df
                                                             salary($)
            experience test_score(out of 10) interview_score(out of 10)
Out[80]:
          0
                                                               50000
                 zero
                                    8.0
                                                           9
         1
                 zero
                                    8.0
                                                               45000
          2
                  five
                                    6.0
                                                          7
                                                               60000
          3
                                   10.0
                                                          10
                                                               65000
                  two
          4
                                    9.0
                                                          6
                                                               70000
                seven
                                    7.0
                                                          10
                                                               62000
                 three
                                   NaN
                                                               72000
                  ten
          7
                eleven
                                    7.0
                                                          8
                                                               80000
In [89]:
          df.experience = df.experience.apply(w2n.word_to_num)
         ValueError
                                                     Traceback (most recent call last)
          <ipython-input-89-e811e5fd667d> in <module>
          ----> 1 df.experience = df.experience.apply(w2n.word_to_num)
         c:\new folder\pyathon38\lib\site-packages\pandas\core\series.py in apply(self, func, convert_dtype, args, **kwargs)
             4354
                          dtype: float64
             4355
          -> 4356
                          return SeriesApply(self, func, convert_dtype, args, kwargs).apply()
             4357
                      def _reduce(
             4358
         c:\new folder\pyathon38\lib\site-packages\pandas\core\apply.py in apply(self)
             1034
                              return self.apply_str()
             1035
          -> 1036
                          return self.apply_standard()
             1037
                      def agg(self):
             1038
         c:\new folder\pyathon38\lib\site-packages\pandas\core\apply.py in apply_standard(self)
             1090
                                   # List[Union[Callable[..., Any], str]]]]]"; expected
             1091
                                   # "Callable[[Any], Any]"
          -> 1092
                                  mapped = lib.map_infer(
             1093
                                       values,
                                       f, # type: ignore[arg-type]
             1094
         c:\new folder\pyathon38\lib\site-packages\pandas\_libs\lib.pyx in pandas._libs.lib.map_infer()
         c:\new folder\pyathon38\lib\site-packages\word2number\w2n.py in word_to_num(number_sentence)
              132 def word_to_num(number_sentence):
                      if type(number_sentence) is not str:
              133
                          raise ValueError("Type of input is not string! Please enter a valid number word (eg. \'two million twenty three thousand and forty nine\')")
          --> 134
              135
                      number_sentence = number_sentence.replace('-', ' ')
             136
         ValueError: Type of input is not string! Please enter a valid number word (eg. 'two million twenty three thousand and forty nine')
In [88]:
          import math
          median_test_score = math.floor(df['test_score(out of 10)'].mean())
          median_test_score
Out[88]: 7
          df['test_score(out of 10)'] = df['test_score(out of 10)'].fillna(median_test_score)
In [83]:
          reg = linear_model.LinearRegression()
In [84]:
          reg.fit(df[['experience','test_score(out of 10)','interview_score(out of 10)']],df['salary($)'])
         LinearRegression()
Out[84]:
In [90]:
          reg.predict([[2,9,6]])
         c:\new folder\pyathon38\lib\site-packages\sklearn\base.py:445: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature
          warnings.warn(
Out[90]: array([53713.86677124])
          reg.predict([[3,8,9]])
In [93]:
         c:\new folder\pyathon38\lib\site-packages\sklearn\base.py:445: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature
         names
           warnings.warn(
Out[93]: array([60857.27438577])
```

import pandas as pd