```
In [1]:
         import pandas as pd
          import numpy as np
          from sklearn import linear_model
 In [3]: df = pd.read_csv('car data.csv')
 In [4]:
          df
            speed car_age experien risk
 Out[4]:
                                  85
         0
             200
                      15
                             5.0
                            13.0 20
         2
             165
                      12
                             4.0 93
             110
                            NaN
                                  60
             140
                       5
                             3.0 82
             115
                             8.0 10
 In [5]:
          df.experien
Out[5]: 0
               5.0
              13.0
         2
               4.0
         3
               NaN
               3.0
               8.0
         Name: experien, dtype: float64
In [15]:
          exm_fit = df.experien.median()
          exm_fit
In [16]:
Out[16]: 5.0
          df.experien = df.experien.fillna(exm_fit)
          df.experien
In [18]:
Out[18]: 0
               5.0
         1
              13.0
         2
               4.0
         3
               5.0
               3.0
               8.0
         Name: experien, dtype: float64
In [19]: df
            speed car_age experien risk
Out[19]:
         0
             200
                      15
                             5.0 85
              90
                      17
                            13.0 20
             165
                      12
                             4.0 93
             110
                      20
                             5.0 60
             140
                       5
                             3.0 82
             115
                             8.0 10
          reg = linear_model.LinearRegression()
In [20]:
          reg.fit(df[['speed', 'car_age', 'experien']],df.risk)
In [22]:
Out[22]: LinearRegression()
In [23]: reg.predict([[180,20,10]])
Out[23]: array([63.05003302])
In [24]: reg.coef_
Out[24]: array([ 0.33059217, 1.61053246, -6.20772074])
In [25]:
          reg.intercept_
Out[25]: 33.410000910435905
In [26]: 0.33059217*180 + 1.61053246*20 + 10*-6.20772074 + 33.410000910435905
Out[26]: 63.05003331043591
```