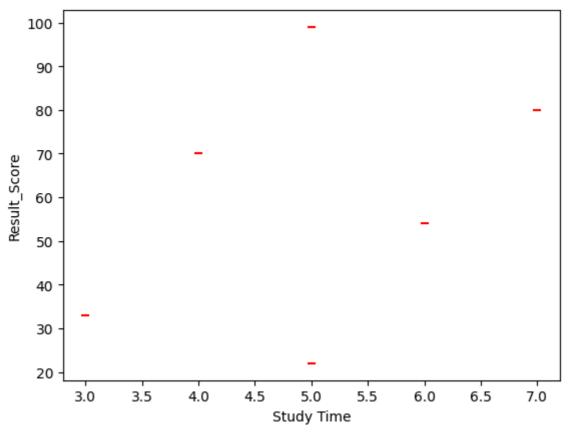
```
In [85]:
         import numpy as np
         import matplotlib.pyplot as plt
         from sklearn.linear_model import LinearRegression
         from sklearn.metrics import mean_squared_error,r2_score
         import pandas as pd
In [86]: #Load Data
         data = pd.read_csv('Book1.csv') # from project root
         print(data.to_string())
         data.plot()
         plt.show()
                Study_Time
           S.R
                            Result_score
        0
             1
                                       70
        1
             2
                          5
                                       99
        2
             3
                          6
                                       54
        3
             4
                          7
                                       80
                          5
        4
             5
                                       22
        5
             6
                          3
                                       33
         100
                                                                       S.R
                                                                       Study_Time
                                                                       Result score
          80
          60
          40
          20
                              1
                                           2
                                                        3
                                                                                  5
In [87]:
         plt.xlabel('Study Time')
         plt.ylabel('Result_Score')
         plt.scatter(data.Study_Time,data.Result_score, color='red',marker='_')
```

Out[87]: <matplotlib.collections.PathCollection at 0x18b0f32f490>



```
In [88]:
         modal=LinearRegression()
         modal.fit(data[['Study_Time']],data.Result_score)
Out[88]:
          LinearRegression
         LinearRegression()
In [89]:
         modal.predict([[5]])
        c:\Users\Mr. Nitin\Desktop\quantum_ML\lib\site-packages\sklearn\utils\validation.
        py:2739: UserWarning: X does not have valid feature names, but LinearRegression w
        as fitted with feature names
          warnings.warn(
Out[89]: array([59.66666667])
         print(modal.coef )
In [90]:
         print(modal.intercept_)
        [7.8]
        20.6666666666667
         #to understand how mx+c working here m=coef,x=value to be predict and c= interse
In [91]:
         7.8*5+20.66
Out[91]:
          59.66
In [92]:
         d=pd.read_csv('Book2.csv')
         d.head(4)
```

Out[92]:		S.R	Study_Time
	0	1	40
	1	2	57
	2	3	65
	3	4	73

Out[96]: [<matplotlib.lines.Line2D at 0x18b0f6214e0>]

