

```
In [1]: from pandas import DataFrame
        from sklearn.model_selection import train_test_split
        from sklearn.linear_model import LinearRegression
```

```
In [2]: data1=[[2.5,21],[5.1,47],[3.2,27],[8.5,75],[3.5,30],[1.5,20],[9.2,88],[5.5,60]
            ,[8.3,81],[2.7,25],[7.7,85],[5.9,62],[4.5,41],[3.3,42],[1.1,17],[8.9,95],[2.5
            ,30],[1.9,24],[6.1,67],[7.4,69],[2.7,30],[4.8,54],[3.8,35],[6.9,76],[7.8,86]]
        data=DataFrame(data1,columns=['Hours','Scores'])
        print(data)
        print('\n\n\n')
```

	Hours	Scores
0	2.5	21
1	5.1	47
2	3.2	27
3	8.5	75
4	3.5	30
5	1.5	20
6	9.2	88
7	5.5	60
8	8.3	81
9	2.7	25
10	7.7	85
11	5.9	62
12	4.5	41
13	3.3	42
14	1.1	17
15	8.9	95
16	2.5	30
17	1.9	24
18	6.1	67
19	7.4	69
20	2.7	30
21	4.8	54
22	3.8	35
23	6.9	76
24	7.8	86

```
In [3]: x=data.iloc[:, :-1].values
        y=data.iloc[:, 1].values
        x_train, x_test, y_train, y_test= train_test_split(x, y, train_size=0.80, test_s
        ize=0.20, random_state=0)
```

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In [4]: linearregressor= LinearRegression()
        linearregressor.fit(x_train, y_train)
        y_predict= linearregressor.predict(x_train)
```

```
In [5]: val1=linearregressor.predict([[9.25]])  
        val=val1[0]  
        print("Student who studied for 9.25 hours will get",int(round(val)), "marks")
```

Student who studied for 9.25 hours will get 94 marks

In [ ]: