```
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

dataset=pd.read_csv("/content/Hours.csv")
x=dataset.iloc[:,:-1].values
y=dataset.iloc[:,1].values
```

```
dataset
```

	hours_spent	risk_score
0	10	95
1	9	80
2	2	10
3	15	50
4	10	45
5	16	98
6	11	38
7	16	93

```
print ("x : \n",x )
print ("Y : " ,y)
```

```
x :
 [[10]
 [ 9]
 [ 2]
 [15]
 [10]
 [16]
 [11]
 [16]]
Y :  [95 80 10 50 45 98 38 93]
```

```
from sklearn.linear_model import LinearRegression
regressor=LinearRegression()
regressor.fit(x,y)
```

```
LinearRegression()
```

```
regressor.coef_
```

```
array([4.58789861])
```

```
regressor.intercept_
```

```
12.584627964022907
```

```
print ("Accuracy :\t", regressor.score(x, y)*100)
```

```
Accuracy :	43.709481451010035
```

```
y_pred=regressor.predict([[8]])
print (y_pred)
```

```
[49.28781684]
```

```
hours=int(input('Enter the number of hours: '))
```

```
Enter the number of hours: 10
```

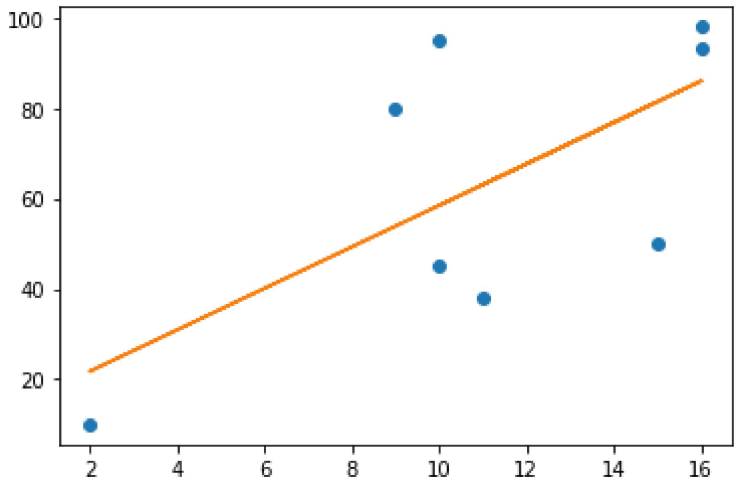
```
hours
```

```
10
```

```
eq=regressor.coef_*hours+regressor.intercept_
print("Risk Score: \t", eq[0])
```

```
Risk Score:	58.4636140637776
```

```
plt.plot(x, y, 'o')
plt.plot(x, regressor.predict(x));
plt.show()
```




```
dataset=pd.read_csv("/content/Hours_Set.csv")
x=dataset.iloc[:,:-1].values
y=dataset.iloc[:,1].values
```

```
dataset
```

	hours_spent	risk_score
0	10	95
1	9	80
2	2	10
3	15	115
4	10	89
5	16	128
6	11	98
7	16	123

```
regressor.fit(x,y)
regressor.fit(x,y)
```

```
LinearRegression()
```

```
print ("Accuracy :\t", regressor.score(x, y)*100)
```

```
Accuracy :	95.22197624759707
```

```
hours=int(input('Enter the number of hours: '))
```

```
Enter the number of hours: 10
```

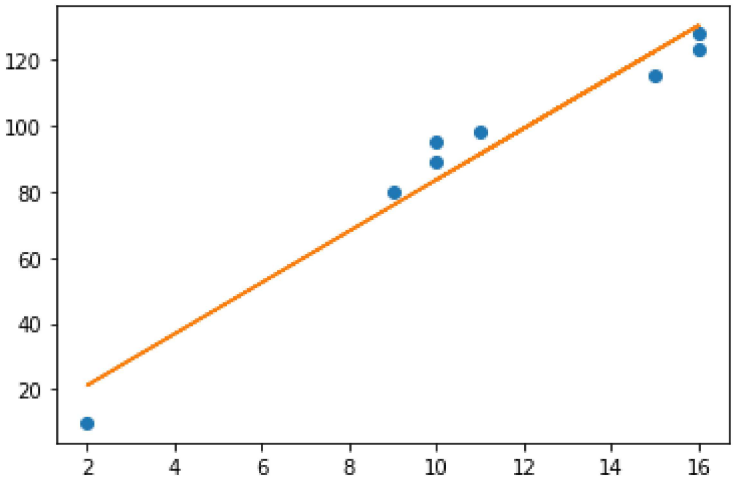
```
hours
```

```
10
```

```
eq=regressor.coef_*hours+regressor.intercept_
print( "\033[1m  Risk Score: \t", eq[0])
```

```
  Risk Score:	83.50204415372036
```

```
plt.plot(x, y, 'o')
plt.plot(x, regressor.predict(x));
plt.show()
```



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