Day-12 | Exam mark prediction using Linear Regression-multipleVariable

Import Libraries

In [ ]:
```
import pandas as pd
from sklearn.linear_model import LinearRegression
```

Load Dataset from Local Directory

In [ ]:
```
from google.colab import files
uploaded = files.upload()
```

Load Dataset

In [ ]:
```
dataset = pd.read_csv('data.csv')
```

Load Summarize

In [ ]:
```
print(dataset.shape)
print(dataset.head(5))
```

Finding & Removing NA values from our Features X

In [ ]:
```
dataset.columns[dataset.isna().any()]
```

In [ ]:
```
dataset.hours = dataset.hours.fillna(dataset.hours.mean())
```

Segregate Dataset into Input X & Output Y

In [ ]:
```
X = dataset.iloc[:, :-1].values
print(X.shape)
X
```

In [ ]:
```
Y = dataset.iloc[:, -1].values
Y
```

Training Dataset using Linear Regression

In [ ]:
```
model = LinearRegression()
model.fit(X,Y)
```

Predicted Price for Land sq.Feet of custom values

In [ ]:
```
a=[[9.2,20,0]]
PredictedmodelResult = model.predict(a)
print(PredictedmodelResult)
```