In [1]:
```
import pandas as pd
admission=pd.read_csv('https://github.com/YBI-Foundation/Dataset/raw/main/Admission%
```

In [2]:
```
admission.head()
```

Out[2]:

	Serial No	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	1	337	118	4	4.5	4.5	9.65	1	0.92
1	2	324	107	4	4.0	4.5	8.87	1	0.76
2	3	316	104	3	3.0	3.5	8.00	1	0.72
3	4	322	110	3	3.5	2.5	8.67	1	0.80
4	5	314	103	2	2.0	3.0	8.21	0	0.65

In [3]:
```
admission.columns
```

Out[3]:
```
Index(['Serial No', 'GRE Score', 'TOEFL Score', 'University Rating', ' SOP',
       'LOR ', 'CGPA', 'Research', 'Chance of Admit '],
      dtype='object')
```

In [5]:
```
y= admission['Chance of Admit ']
x= admission[['Serial No', 'GRE Score', 'TOEFL Score', 'University Rating', ' SOP',
       'LOR ', 'CGPA', 'Research']]
```

In [6]:
```
from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,train_size=0.7,random_state=2529)
```

In [8]:
```
from sklearn.linear_model import LinearRegression
model=LinearRegression()
```

In [9]:
```
model.fit(x_train,y_train)
```

Out[9]:
```
LinearRegression()
```

In [10]:
```
y_pred=model.predict(x_test)
y_pred
```

Out[10]:
```
array([0.71638511, 0.75610311, 0.68760789, 0.68124699, 0.56927168,
       0.91423484, 0.90562753, 0.72569757, 0.79088749, 0.59675934,
       0.59489304, 0.80774252, 0.54572472, 0.77132503, 0.8737274 ,
       0.66751677, 0.61934136, 0.67447953, 0.73484064, 0.84425246,
       0.62922545, 0.86090216, 0.82814605, 0.9151533 , 0.68755296,
       0.63544487, 0.6134806 , 0.57723203, 0.51557048, 0.61715529,
       0.52595747, 0.76388331, 0.69695739, 0.75953801, 0.62049587,
       0.53097396, 0.40200383, 0.87065079, 0.92286173, 0.78952969,
       0.71932513, 0.73604218, 0.70278395, 0.90704   , 0.80062706,
       0.81781888, 0.91769447, 0.86667679, 0.58887763, 0.48098577,
       0.62564848, 0.61917228, 0.8041983 , 0.46620308, 0.71182598,
       0.74243792, 0.69141228, 0.63484399, 0.82789223, 0.6680648 ,
       0.64158042, 0.93553342, 0.66537654, 0.65115639, 0.73074156,
       0.69630576, 0.59954454, 0.91516057, 0.57456458, 0.90601273,
```

```
0.5702746 , 0.92658714, 0.62468054, 0.71689836, 0.5250502 ,
0.86364436, 0.60792138, 0.72722255, 0.66042681, 0.82080932,
0.7225671 , 0.89929811, 0.67637301, 0.49554676, 0.75688317,
0.64865133, 0.77128243, 0.57848782, 0.79141629, 0.67201156,
0.68439077, 0.68509744, 0.91922614, 0.67840876, 0.65244089,
0.64779263, 0.77551969, 0.67516585, 0.76765527, 0.60929075,
0.96500346, 0.69771574, 0.97109768, 0.8244446 , 0.80824716,
0.86627331, 0.65875764, 0.69147515, 0.60381244, 0.59431034,
0.81010835, 0.69414677, 0.76932107, 0.57984938, 0.54290832,
0.73859636, 0.70651852, 0.62741334, 0.84271712, 0.66928116])
```

In [11]:

```
from sklearn.metrics import mean_absolute_percentage_error
mean_absolute_percentage_error(y_test,y_pred)
```

Out[11]:

```
0.07400437276133903
```