Importing Libraries

In [1]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
```

Loading the Datasets

In [2]:
```
data=pd.read_csv('Admission_Predict.csv')
data
```

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
...	...	...	...	...	...	...	...	...	...
395	396	324	110	3	3.5	3.5	9.04	1	0.82
396	397	325	107	3	3.0	3.5	9.11	1	0.84
397	398	330	116	4	5.0	4.5	9.45	1	0.91
398	399	312	103	3	3.5	4.0	8.78	0	0.67
399	400	333	117	4	5.0	4.0	9.66	1	0.95

400 rows × 9 columns

Split the data into dependent and independent variables

In [3]:
```
x = data.iloc[:,0:7]
x
```

Out[3]:

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA
0	1	337	118	4	4.5	4.5	9.65
1	2	324	107	4	4.0	4.5	8.87
2	3	316	104	3	3.0	3.5	8.00
3	4	322	110	3	3.5	2.5	8.67
4	5	314	103	2	2.0	3.0	8.21
...	...	..	...	...	...	...	...
395	396	324	110	3	3.5	3.5	9.04
396	397	325	107	3	3.0	3.5	9.11
397	398	330	116	4	5.0	4.5	9.45
398	399	312	103	3	3.5	4.0	8.78
399	400	333	117	4	5.0	4.0	9.66

400 rows × 7 columns

In [4]:
```
x.head()
```

Out[4]:

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA
0	1	337	118	4	4.5	4.5	9.65
1	2	324	107	4	4.0	4.5	8.87
2	3	316	104	3	3.0	3.5	8.00
3	4	322	110	3	3.5	2.5	8.67
4	5	314	103	2	2.0	3.0	8.21

In [5]:
```
y = data.iloc[:,8:9 ]
y
```

Out[5]:

	Chance of Admit
0	0.92
1	0.76
2	0.72
3	0.80
4	0.65
...	...
395	0.82
396	0.84
397	0.91
398	0.67
399	0.95

400 rows × 1 columns

In [6]:
```
y.head()
```

Out[6]:

	Chance of Admit
0	0.92
1	0.76
2	0.72
3	0.80
4	0.65

In [7]:
```
print(f'x contains: {x.shape[0]} rows and {x.shape[1]} columns')
```

```
x contains: 400 rows and 7 columns
```

In [8]:
```
print(f'y contains: {y.shape}')
```

```
y contains: (400, 1)
```

In [9]:
```
from sklearn.preprocessing import MinMaxScaler
scaler=MinMaxScaler()
x[x.columns] = scaler.fit_transform(x[x.columns])
```

In [10]:
```
x.head()
```

Out[10]:

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA
0	0.000000	0.94	0.928571	0.75	0.875	0.875	0.913462
1	0.002506	0.68	0.535714	0.75	0.750	0.875	0.663462
2	0.005013	0.52	0.428571	0.50	0.500	0.625	0.384615
3	0.007519	0.64	0.642857	0.50	0.625	0.375	0.599359
4	0.010025	0.48	0.392857	0.25	0.250	0.500	0.451923

In [ ]:
```

```