Deena 20104016

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as pp
```

Problem Statement

LINEAR REGRESSION

In [2]: a = pd.read_csv("13_placement.csv")

Out[2]:

	cgpa	placement_exam_marks	placed
0	7.19	26.0	1
1	7.46	38.0	1
2	7.54	40.0	1
3	6.42	8.0	1
4	7.23	17.0	0
995	8.87	44.0	1
996	9.12	65.0	1
997	4.89	34.0	0
998	8.62	46.0	1
999	4.90	10.0	1

1000 rows × 3 columns

HEAD

In [3]:				
Out[3]:				
		cgpa	placement_exam_marks	placed
	0	7.19	26.0	1
	1	7.46	38.0	1
	2	7.54	40.0	1
	3	6.42	8.0	1
	4	7.23	17.0	0

Data Cleaning and Preprocessing

Out[5]:

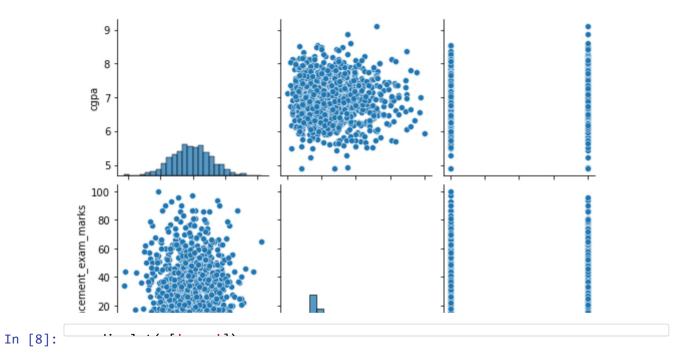
placed	placement_exam_marks	cgpa	
1000.000000	1000.000000	1000.000000	count
0.489000	32.225000	6.961240	mean
0.500129	19.130822	0.615898	std
0.000000	0.000000	4.890000	min
0.000000	17.000000	6.550000	25%
0.000000	28.000000	6.960000	50%
1.000000	44.000000	7.370000	75%
1.000000	100.000000	9.120000	max

To display heading

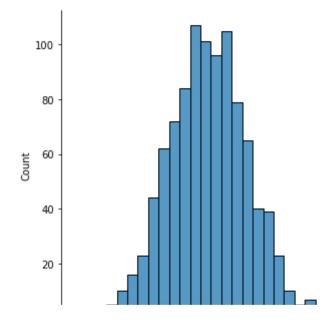
```
In [6]:
Out[6]: Index(['cgpa', 'placement_exam_marks', 'placed'], dtype='object')
```

In [7]:

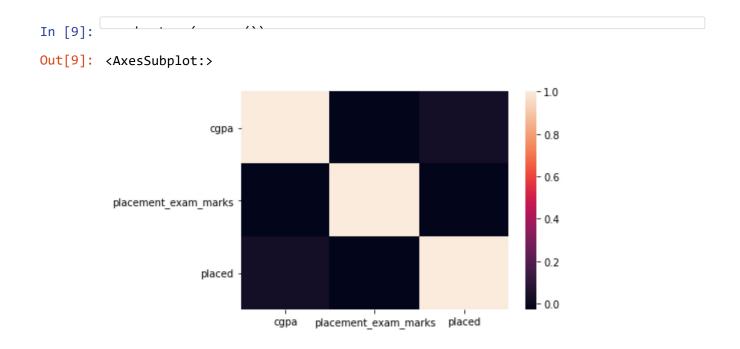
Out[7]: <seaborn.axisgrid.PairGrid at 0x15520e3f490>



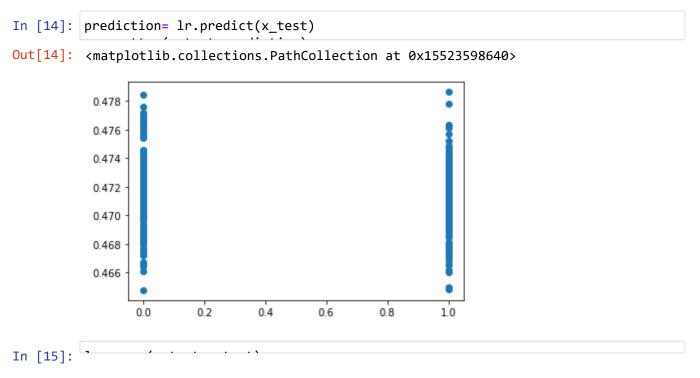
Out[8]: <seaborn.axisgrid.FacetGrid at 0x15520d19f70>



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TO TRAIN THE MODEL - MODEL BUILDING



Out[15]: -0.014897467689666266