

```
In [2]: import pandas as pd
```

```
In [3]: df=pd.read_csv('../pr3/Admission_Predict.csv')
```

```
In [4]: df.columns
```

```
Out[4]: Index(['Serial No.', 'GRE Score', 'TOEFL Score', 'University Rating', 'SOP',
              'LOR ', 'CGPA', 'Research', 'Chance of Admit '],
              dtype='object')
```

removing right space

```
In [6]: df.columns=df.columns.str.rstrip()
```

```
In [7]: df.columns
```

```
Out[7]: Index(['Serial No.', 'GRE Score', 'TOEFL Score', 'University Rating', 'SOP',
              'LOR', 'CGPA', 'Research', 'Chance of Admit'],
              dtype='object')
```

indexing by loc function

```
In [8]: df.loc[df['Chance of Admit']>=0.80,'Chance of Admit']=1
```

```
In [9]: df.loc[df['Chance of Admit']<0.80,'Chance of Admit']=0
```

```
In [10]: df['Chance of Admit']
```

```
Out[10]: 0      1.0
1      0.0
2      0.0
3      1.0
4      0.0
...
395     1.0
396     1.0
397     1.0
398     0.0
399     1.0
Name: Chance of Admit, Length: 400, dtype: float64
```

```
In [13]: df=df.drop('Serial No.',axis=1)#dropping serial no column as it it of no use .
```

```
In [14]: df
```



```
In [25]: from sklearn.metrics import confusion_matrix
```

```
In [26]: matrix=confusion_matrix(y_test,y_pred,labels=[0.0,1.0])
```

```
In [27]: x_train.shape
         x_test.shape
```

```
Out[27]: (100, 7)
```

```
In [28]: matrix
```

```
Out[28]: array([[66,  5],
               [ 2, 27]], dtype=int64)
```

```
In [29]: from sklearn.metrics import accuracy_score
```

```
In [30]: acc=accuracy_score(y_test,y_pred) #calculating accuracy score
```

```
In [31]: print(acc)
```

```
0.93
```

```
In [32]: from sklearn.metrics import classification_report
```

```
In [33]: cr=classification_report(y_test,y_pred)
```

```
In [34]: print(cr)
```

	precision	recall	f1-score	support
0.0	0.97	0.93	0.95	71
1.0	0.84	0.93	0.89	29
accuracy			0.93	100
macro avg	0.91	0.93	0.92	100
weighted avg	0.93	0.93	0.93	100

```
In [ ]:
```