

### Reading the CSV file in concern

+ Code + Markdown

```
[3]: df.head()
```

```
[4]: (891, 12)
```

### Checking the null values in each column

Total records = 891

	Total Missing	In Percent
Cabin	687	77.10
Age	177	19.87
Embarked	2	0.22
PassengerId	0	0.00
Survived	0	0.00
Pclass	0	0.00
Name	0	0.00
Sex	0	0.00
SibSp	0	0.00
Parch	0	0.00

### Fixing the NULL values in the columns

```
[14]: total_null = df.isnull().sum().sort_values(ascending = False)
percent = ((df.isnull().sum()/df.isnull().count())*100).sort_values(ascending = False)
print('Total records = ', df.shape[0])

missing_data = pd.concat([total_null, percent.round(2)], axis=1, keys=['Total Missing', 'In Percent'])
missing_data.head(10)
```

Total records = 889

	Total Missing	In Percent
PassengerId	0	0.0
Survived	0	0.0
Pclass	0	0.0
Name	0	0.0
Sex	0	0.0
Age	0	0.0
SibSp	0	0.0
Parch	0	0.0
Ticket	0	0.0
Fare	0	0.0

```
[8]: import matplotlib.pyplot as plt
import seaborn as sns
```

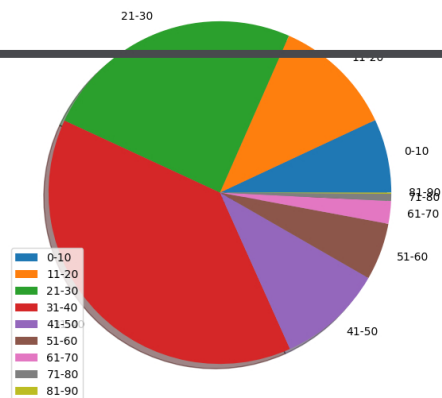
```
[9]: survived_count = df.groupby('Survived')['Survived'].count() # can be done using value counts
survived_count
```

```
[9]: Survived
0    549
1    342
Name: Survived, dtype: int64
```

[ ]:

## Pie chart for different age groups

```
[10]: agedist=df[df['Age'].notnull()]['Age'].values
ages=np.histogram(agedist,bins=[0,10,20,30,40,50,60,70,80,90])
ages_label=['0-10','11-20','21-30','31-40','41-50','51-60','61-70','71-80','81-90']
plt.figure(figsize=(7, 7))
explode=[0,0,0,0,0,0,0,0,0]
plt.pie(x=ages[0], labels=ages_label,shadow=True,explode=explode)
plt.legend()
plt.show()
```



[ ]: