

In [4]:

```
#Importing pandas library using aliase pd
import pandas as pd
```

In [7]:

```
# Reading titanic csv file assigning it to df variable
df = pd.read_csv("Titanic.csv")
```

In [9]:

```
# Reading data with head() method
# By default head() method will show top 5 rows starting from 0th index
df.head()
```

Out[9]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500

In [11]:

```
# If you want to see more number of columns you can pass just
# number inside the head() method
df.head(10)
# Here I put 10, so top 10 rows will displayed
```

Out[11]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...)	female	38.0	1	0	PC 17599	71.2833
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500
5	6	0	3	Moran, Mr. James	male	NaN	0	0	330877	8.4583
6	7	0	1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51.8625
7	8	0	3	Palsson, Master. Gosta Leonard	male	2.0	3	1	349909	21.0750
8	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27.0	0	2	347742	11.1333
9	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14.0	1	0	237736	30.0708

In [13]:

```
# to see rows from bottom use tail() method
# just like head() method tail() method also shows bottom 5 rows
df.tail()
```

Out[13]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Category
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.00	Not Survived
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.00	Survived
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.45	Not Survived
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.00	Survived
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.75	Not Survived

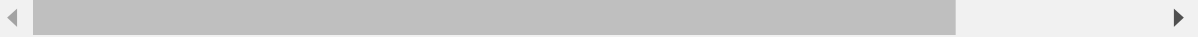


In [14]:

```
# to see more rows from bottom
df.tail(10)
```

Out[14]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
881	882	0	3	Markun, Mr. Johann	male	33.0	0	0	349257	7.89€
882	883	0	3	Dahlberg, Miss. Gerda Ulrika	female	22.0	0	0	7552	10.51€
883	884	0	2	Banfield, Mr. Frederick James	male	28.0	0	0	C.A./SOTON 34068	10.50€
884	885	0	3	Sutehall, Mr. Henry Jr	male	25.0	0	0	SOTON/OQ 392076	7.05€
885	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39.0	0	5	382652	29.12€
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.00€
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.00€
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.45€
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.00€
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.75€



In [20]:

```
# if u want to see randomly rows from dataset
# we can use sample() method
df.sample()
# by default it will give only one randomly row
```

Out[20]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin
112	113	0	3	Barton, Mr. David John	male	22.0	0	0	324669	8.05	NaN

In [21]:

```
# to see more rows with sample()
df.sample(10)
```

Out[21]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
753	754	0	3	Jonkoff, Mr. Lailo	male	23.0	0	0	349204	7.8958
434	435	0	1	Silvey, Mr. William Baird	male	50.0	1	0	13507	55.9000
689	690	1	1	Madill, Miss. Georgette Alexandra	female	15.0	0	1	24160	211.3375
106	107	1	3	Salkjelsvik, Miss. Anna Kristine	female	21.0	0	0	343120	7.6500
795	796	0	2	Otter, Mr. Richard	male	39.0	0	0	28213	13.0000
514	515	0	3	Coleff, Mr. Satio	male	24.0	0	0	349209	7.4958
301	302	1	3	McCoy, Mr. Bernard	male	NaN	2	0	367226	23.2500
885	886	0	3	Rice, Mrs. William (Margaret Norton)	female	39.0	0	5	382652	29.1250
18	19	0	3	Vander Planke, Mrs. Julius (Emelia Maria Vande...	female	31.0	1	0	345763	18.0000
296	297	0	3	Hanna, Mr. Mansour	male	23.5	0	0	2693	7.2292

In [22]:

```
# To get info about the columns and its data types use info()
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   PassengerId     891 non-null    int64
 1   Survived        891 non-null    int64
 2   Pclass          891 non-null    int64
 3   Name            891 non-null    object
 4   Sex             891 non-null    object
 5   Age             714 non-null    float64
 6   SibSp           891 non-null    int64
 7   Parch           891 non-null    int64
 8   Ticket          891 non-null    object
 9   Fare            891 non-null    float64
10   Cabin           204 non-null    object
11   Embarked        889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
```

In [24]:

```
# To see stastics number of dataset use describe() method
df.describe()
# with the help of describe we can see count, mean, std, min, quartile and max
```

Out[24]:

	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fare
count	891.000000	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
mean	446.000000	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
std	257.353842	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
min	1.000000	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
25%	223.500000	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
50%	446.000000	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
75%	668.500000	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
max	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

In []:

