In [1]:	<pre>import pandas as pd</pre>
In [2]:	
In [3]: In [4]:	<pre>import seaborn as sns df=pd.read_csv("C:\\Users\\admn\\Desktop\\titanic_dataset.csv")</pre>
In [5]:	
Out[5]:	Passengerld Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embarked Braund, Mr. Owen Harris male 22.0 1 0 A/5 21171 7.2500 NaN S
	1 2 1 1 Cumings, Mrs. John Bradley (Florence Briggs Th female 38.0 1 0 PC 17599 71.2833 C85 C 2 3 1 3 Heikkinen, Miss. Laina female 26.0 0 0 STON/O2. 3101282 7.9250 NaN S
	3 4 1 1 Futrelle, Mrs. Jacques Heath (Lily May Peel) female 35.0 1 0 113803 53.1000 C123 S 4 5 0 3 Allen, Mr. William Henry male 35.0 0 0 373450 8.0500 NaN S
	886 887 0 2 Montvila, Rev. Juozas male 27.0 0 0 211536 13.0000 NaN S 887 888 1 1 Graham, Miss. Margaret Edith female 19.0 0 0 112053 30.0000 B42 S
	888 889 0 3 Johnston, Miss. Catherine Helen "Carrie" female NaN 1 2 W./C. 6607 23.4500 NaN S 889 890 1 1 Behr, Mr. Karl Howell male 26.0 0 0 111369 30.0000 C148 C
	890 891 0 3 Dooley, Mr. Patrick male 32.0 0 0 370376 7.7500 NaN Q 891 rows × 12 columns
In [7]:	<pre>df.isnull().sum()</pre>
ouc[/].	PassengerId 0 Survived 0 Pclass 0 Name 0
	Sex 0 Age 177 SibSp 0
	Parch 0 Ticket 0 Fare 0 Cabin 687
	Embarked 2 dtype: int64
In [10]:	<pre>df.drop(columns=['Cabin'],inplace=True) df['Age']=df['Age'].fillna(df['Age'].median())</pre>
In [11]:	<pre>df.boxplot()</pre>
Out[11]:	<axessubplot:></axessubplot:>
	800
	400
	PassengerldSurvived Pclass Age SibSp Parch Fare
In [12]:	<pre>df.isnull().sum() PassengerId 0</pre>
040[12]	Survived 0 Pclass 0 Name 0
	Sex 0 Age 0 SibSp 0 Parch 0
	Ticket 0 Fare 0 Embarked 2 dtype: int64
In [13]:	<pre>dtype: int64 df['Embarked']=df['Embarked'].fillna(df['Embarked'].mode()[0])</pre>
In [14]:	<pre>df['Embarked'].value_counts()</pre>
out[14].	S 646 C 168 Q 77 Name: Embarked, dtype: int64
In [15]:	<pre>df['Pclass'].value_counts()</pre>
	3 491 1 216 2 184 Name: Pclass, dtype: int64
In [16]:	<pre>df['Survived'].value_counts()</pre>
out[10].	0 549 1 342 Name: Survived, dtype: int64
In [17]: Out[17]:	<pre>sns.countplot(x='Survived', data=df) <axessubplot:xlabel='survived', ylabel="count"></axessubplot:xlabel='survived',></pre>
	500 -
	400 - = 300 -
	200 -
In [18]:	0 1 Survived
	<pre>sns.countplot(x='Pclass', data=df) </pre> <pre><axessubplot:xlabel='pclass', ylabel="count"></axessubplot:xlabel='pclass',></pre>
	500 - 400 -
	± 300 -
	200 - 100 -
	1 2 3 Pclass
In [20]:	Pclass sns.countplot(x='Sex', data=df)
Out[20]:	<pre><axessubplot:xlabel='sex', ylabel="count"></axessubplot:xlabel='sex',></pre>
	500 -
	400 - tig 300 -
	200 - 100 -
	male female Sex
In [21]:	<pre>df.info()</pre>
	<pre><class 'pandas.core.frame.dataframe'=""> RangeIndex: 891 entries, 0 to 890 Data columns (total 11 columns): # Column Non-Null Count Dtype</class></pre>
	O PassengerId 891 non-null int64 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 891 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 Embarked 891 non-null object dtypes: float64(2), int64(5), object(4) memory usage: 76.7+ KB
In [22]:	<pre>sns.displot(df['Fare']) <seaborn.axisgrid.facetgrid 0x1fa8ef241f0="" at=""></seaborn.axisgrid.facetgrid></pre>
Out[22]:	300 -
	250 -
	200 - 5 150 -
	8 150 - 100 -
	50 -
	0 100 200 300 400 500 Fare
In [23]:	<pre>sns.countplot(x='Pclass', hue='Survived', data=df)</pre>
Out[23]:	<pre><axessubplot:xlabel='pclass', ylabel="count"></axessubplot:xlabel='pclass',></pre> 350 - Survived
	300 - 1
	150 -
	100 - 50 -
	1 2 3 Pclass
In [24]: Out[24]:	<pre>sns.countplot(x='Sex', hue='Survived', data=df) <axessubplot:xlabel='sex', ylabel="count"></axessubplot:xlabel='sex',></pre>
⊀]·	Survived 0 0 1
	300 -
	200 -
In [25]:	male female Sex
	<pre>sns.displot(df[df['Survived']==0]['Age']) <seaborn.axisgrid.facetgrid 0x1fa8f12fe20="" at=""></seaborn.axisgrid.facetgrid></pre>
	150 -
	125 -
	100 - 8 75 -
	75 - 50 -
	0 10 20 30 40 50 60 70 Age
In []:	