in the given data set

7) **Theory:**

The fields in the dataset are as followed

1) Survival - Survival (0 = No; 1 = Yes)
2) Class - Passenger Class (1 = 1st; 2 = 2nd; 3 = 3rd)
3) name - Name.
4) Sex - Gender.
5) age - Age
6) Sibsp - Number of Siblings / Spouse aboard
7) parch - Number of parent / Children aboard
8) ticket - Ticket Number.
9) fare - passenger fare.
10) cabin - Cabin.
11) embarked - Port of Embarkation (C = Cherbourg; Q = Queenstown; S = Southampton)
12) boat = lifeboat (if survived)
13) body = Body number (if did not survive and body was recovered)

Observations

1) So. using Count plot graph, i identified that the people who survived, among them the maximum were from 3rd Passenger class.

2) Among total people survived maximum were male comparitively.

3) People who survived were almost embarked to southampton and people who didn't survived were also embarked to southampton.

4) 3rd passenger class wore having the most customer base who survived. whereas 2nd passenger class was having the least passenger base who didn't survived unfortunately.

5) Using scatterplot, we observed that the passengers having 1st class with least age were having fare varying from 50 to 200, the age group varying from 10 to 70 were having fare from 10 to 500, and the max age group were having fare around 10 to 100.

6) Using hist plot, we found that maximum passenger base was from the age group of 20 to 40 years and that too were females.

7) The last observation says that most of the passengers embarked from southampton out of which more than 50% were male.