

Write-up	Correctness of Program	Documentation of Program	Viva	Timely Completion	Total	Dated Sign of Subject Teacher
4	4	4	4	4	20	

Expected Date of Completion:.....

Actual Date of Completion:.....

## Group A

### Assignment No: 8

#### Title of the Assignment: Data Visualization I

1. Use the inbuilt dataset 'titanic'. The dataset contains 891 rows and contains information about the passengers who boarded the unfortunate Titanic ship. Use the Seaborn library to see if we can find any patterns in the data.
2. Write a code to check how the price of the ticket (column name: 'fare') for each passenger is distributed by plotting a histogram.

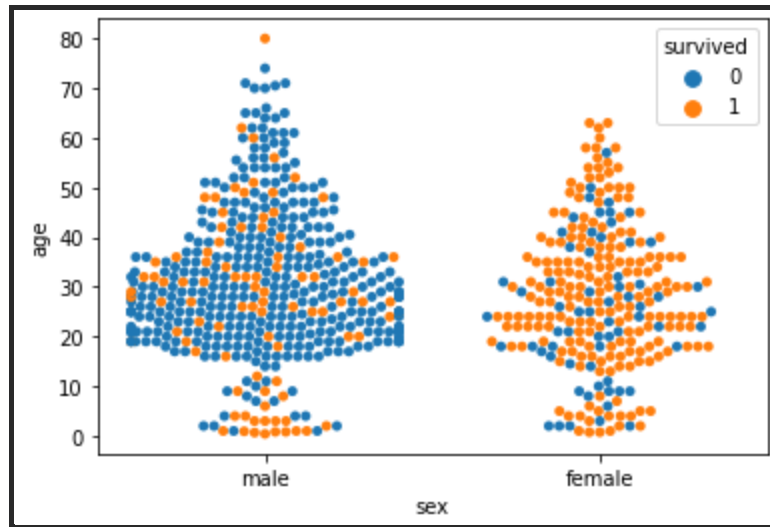
**Objective of the Assignment:** Students should be able to perform the data Visualization operation using Python on any open source dataset

#### Prerequisite:

1. Basic of Python Programming
2. Seaborn Library, Concept of Data Visualization.

#### Assignment Questions

1. Explain different types of plot of seaborn to find patterns of data
2. Explain when you will use distribution plots and when you will use categorical plots.
3. Write the conclusion from the following swarm plot (consider titanic dataset)



4. Which parameter is used to add another categorical variable to the violin plot, Explain with syntax and example.