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Subject: Assignment-8 DV

Assignment -8

Problem Statement: Use the inbuilt dataset 'titanic' as used in the above problem. Plot a box plot for distribution of age with respect to each gender along with the information about whether they survived or not. (Column names: 'sex' and 'age')

Dataset link: https://github.com/datasciencedojo/datasets/blob/master/titanic.csv

Importing Libraries

```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

Dataframe Creation and EDA

```
# Load the Titanic dataset
file_path = '/content/titanic.csv'
df = pd.read_csv(file_path)

df.head()
```

→	PassengerI	d Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
()	1 0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	I	2 1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833
2	2	3 1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	3	4 1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
2	ı	5 0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500
										•
Next s	ext steps: Generate code with df		df	View recommended plots New				New inte	ractive sheet	

df.tail()



