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Roll No: 21119

Subject: Software Laboratory III (DATA SCIENCE)

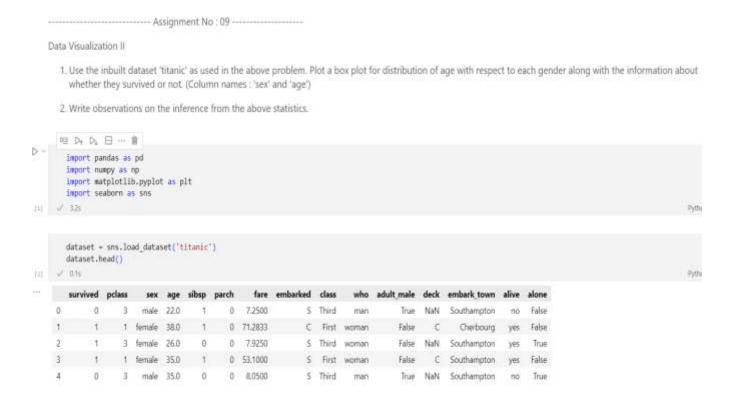
Assignment No: 09

Problem statement:

Data Visualization II

- 1. 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')
- 2. Write observations on the inference from the above statistics.

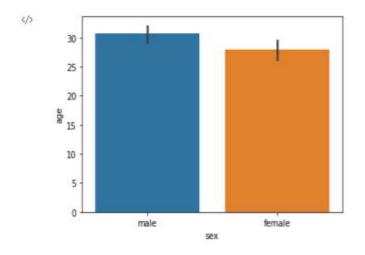
CODE:



```
sns.barplot(data=dataset,x='sex',y='age')
[3]

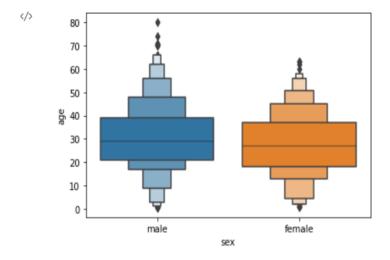
√ 0.3s
```

<AxesSubplot:xlabel='sex', ylabel='age'>



```
sns.boxenplot(data=dataset,x='sex',y='age')
     ✓ 0.1s
[4]
```

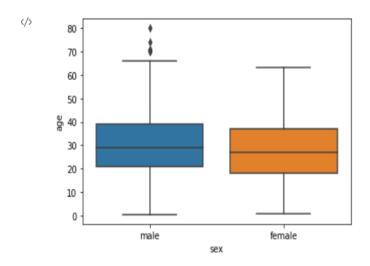
<AxesSubplot:xlabel='sex', ylabel='age'>



```
sns.boxplot(data=dataset,x='sex',y='age')

[5]  \( \sigma 0.1s \)
```

... <AxesSubplot:xlabel='sex', ylabel='age'>



```
plt.figure(figsize=(8,18))
sns.boxplot(data=dataset,x='sex',y='age',hue='survived')
plt.show()

// 02s
```

