

Assignment no.09

In []: Aim:
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 who survived or not. (Column names : 'sex' and 'age')

In []: Name:Sneha Navgire
Roll no:13246
Batch:B3

In [1]: import seaborn as sns
import matplotlib.pyplot as plt

In [3]: titanic = sns.load_dataset('titanic')
titanic

Out[3]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	ad
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	C	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	
...	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	
887	1	1	female	19.0	0	0	30.0000	S	First	woman	
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	
889	1	1	male	26.0	0	0	30.0000	C	First	man	
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	

891 rows × 15 columns



In [9]: plt.figure(figsize=(10,6))
sns.boxplot(x='sex', y='age', hue='survived', data=titanic)
plt.title('Age Distribution with Respect to Gender and Survival Status')
plt.xlabel('Gender')
plt.ylabel('Age')

Display the plot
plt.show()

