PRACTICAL 09

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

# Load the dataset
df = pd.read_csv("Titanic.csv")  # Ensure this file is correctly placed

# Standardize column names (strip spaces)
df.columns = df.columns.str.strip()

# Convert 'Age' to a numeric type (handle missing values)
df['Age'] = pd.to_numeric(df['Age'], errors='coerce')

# Drop rows where 'Age' is NaN
df = df.dropna(subset=['Age'])

# Check if required columns exist
if {'Sex', 'Age', 'Survived'}.issubset(df.columns):
    plt.figure(figsize=(10, 6))

    # Box plot for Age distribution by Sex and Survival
    sns.boxplot(x='Sex', y='Age', hue='Survived', data=df, palette="Set2")

    plt.xlabel("Gender")
    plt.ylabel("Age")
    plt.title("Age Distribution by Gender and Survival Status")
    plt.legend(title="Survived", labels=["No (0)", "Yes (1)"])
    plt.show()
else:
    print("One or more required columns ('Sex', 'Age', 'Survived') are missing in the dataset.")
```

OUTPUT: