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"""Alaiba Nawaz Day1.ipynb
Automatically generated by Colaboratory.
Original file is located at
https://colab.research.google.com/drive/1bR68rs JAH9CMmo1Sz9Jff7joTnlM3OJ
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import pandas as pd
import seaborn as sns
from sklearn.preprocessing import StandardScaler
from sklearn.pipeline import Pipeline
from sklearn.preprocessing import OrdinalEncoder
#loading data in dataframe
df1 = pd.read csv("/content/test.csv")
df2 = pd.read csv("/content/train.csv")
#combining training ad testing data
data = pd.concat([df1,df2])
#getting informmation about data
data.info()
#droppping duplicates
data.drop duplicates(inplace = True)
data
#dropping missing values
data.dropna(inplace = True)
data
#check and handle outlier
#plotting box plot to check for outlier
sns.boxplot(data=data)
```

```
q1 = data.quantile(0.25)
q3 = data.quantile(0.75)
iqr = q3 - q1
outliers = (data < (q1 - 1.5 * iqr)) | (data > (q3 + 1.5 * iqr))
#handling them by removinng them
no outliers = data[~outliers.any(axis=1)]
no outliers
#stadardizing numerical columns
numerical columns = ['PassengerId', 'Survived', 'Pclass' , 'Age' , 'SibSp'
pipeline = Pipeline([
])
for col in numerical columns:
    data[col] = pipeline.fit transform(data[col].values.reshape(-1, 1))
data
#Encoding Sex Variable
ordinal encoder = OrdinalEncoder(categories=[['female' , 'male']])
data['Sex'] = ordinal encoder.fit transform(data[['Sex']])
```