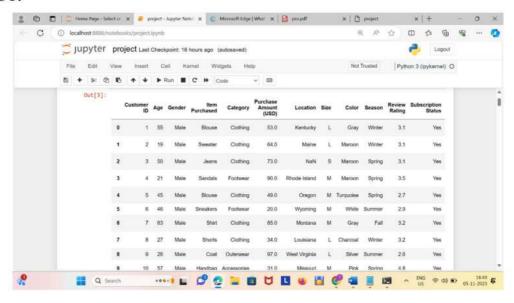
DATA PREPROCESSING

DATAFRAME CREATION:

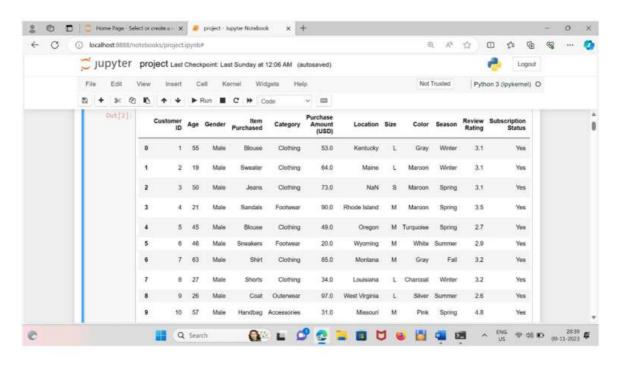
#creating data frame from the csv file
import pandas as pd
df=pd.read_csv(r"C:\\Users\Nithesh\Downloads\shopping_trends.csv")
df

OUTPUT:



Data Frame of Shopping trends dataset

Data Frame of Shopping trends dataset



DATA PREPROCESSING:

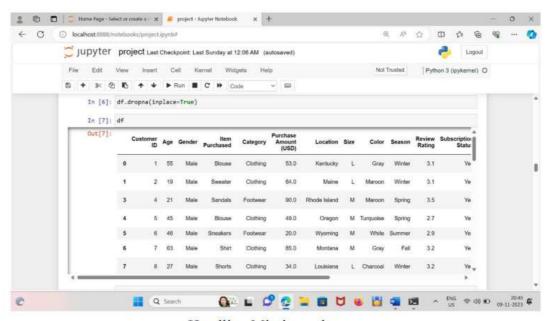
#Handling Missing Values

import pandas as pd

df=pd.read_csv(r"C:\\Users\Nithesh\Downloads\shopping_trends.csv")

df.dropna(inplace=True)

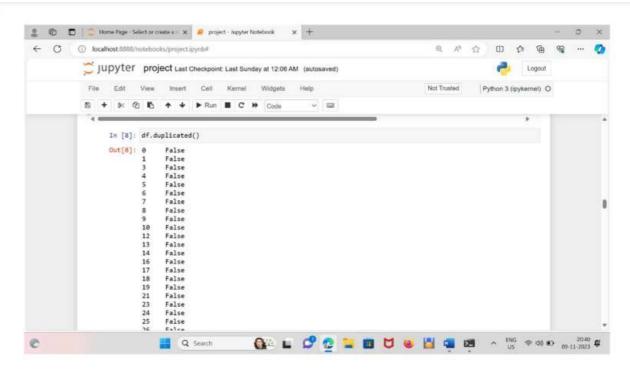
OUTPUT:



Handling Missing values

#Identifying the duplicates in a entire dataframe df.duplicated()

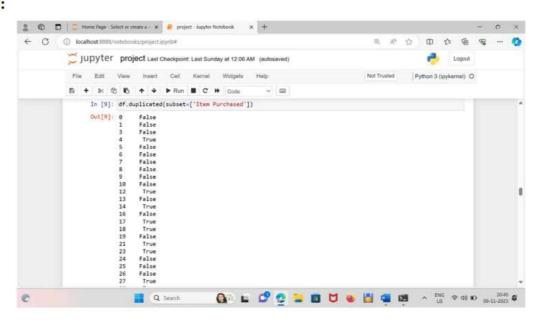
OUTPUT:



Duplicates in a Data Frame

#Identifying the duplicates in a particular column df.duplicated(subset=['Item Purchased'])

OUTPUT:



Duplicates in a particular column

#Removing the duplicates in a particular colum

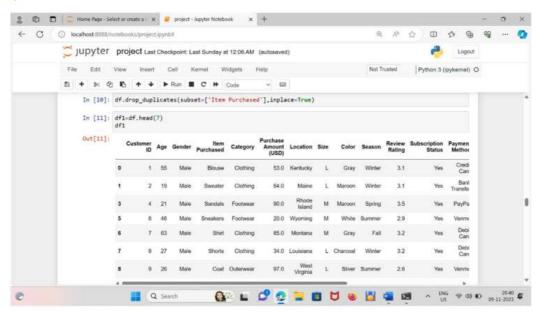
df.drop_duplicates(subset=['Item Purchased'],inplace=True)

#Accesing the top elements in a data frame using head

df1=df.head(7)

df1

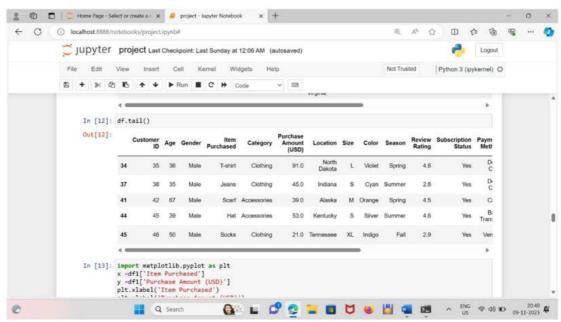
OUTPUT:



Accessing top elements using head

#Accessing the bottom elements in a data frame using tail df.tail()

OUTPUT:



Accessing bottom elements using tail