#Python script for Visualisation: GDP ::: Line\_plot

#Importing necessary Libraries

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

# Load the data into a DataFrame

df = pd.read\_csv("D:\\Datasets\\New folder\\P\_Data\_Extract\_From\_World\_Development\_Indicators.csv")

df

#Columns

df.columns = ["Country Name", "Country Code", "Series Name", "Series Code", "2012 [2K12]", "2013 [2K13]", "2014 [2K14]", "2015 [2K15]", "2016 [2K16]", "2017 [2K17]", "2018 [2K18]", "2019 [2K19]", "2020 [2K20]", "2021 [2K21]"]

#Line Plot

df.plot(x="Country Code", y=["2012 [2K12]", "2013 [2K13]", "2014 [2K14]","2015 [2K15]", "2016 [2K16]", "2017 [2K17]", "2018 [2K18]", "2019 [2K19]", "2020 [2K20]", "2021 [2K21]"])

plt.title("GDP and GDP per capita in Ind, UK and USA")

plt.xlabel("Countries")

plt.ylabel("GDP and GDP per capita %")

plt.show()

#Python script for Visualisation: BBC ::: Bar plot & Scatter plot

#Importing necessary Libraries

import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns

#Load the dataset

#Load the dataset

def load\_dataset():

df = pd.read\_csv("D:\\Datasets\\New folder\\BBC\_UK.csv")

return df

uk\_df = load\_dataset() # Add a column for article length

uk\_df['length'] = uk\_df['text'].apply(len)

uk\_df

# Bar chart & # Scatter plot

def bar\_chart():

plt.figure(figsize=(8, 6))

sns.countplot(data=uk\_df, x='category')

plt.xlabel('Category')

plt.ylabel('Number of articles')

plt.title('Number of articles by category')

plt.show()

def scatter\_plot():

plt.figure(figsize=(8, 6))

sns.scatterplot(data=uk\_df, x='length', y='category')

plt.xlabel('Article Length')

plt.ylabel('Category')

plt.title('Article Length by Category')

plt.show()

# Call the functions

bar\_chart()

scatter\_plot()