**#Code 1 Line plot**

#Importing Libraries

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

#Loading data

world\_population\_dataframe = pd.read\_csv("D:\\Datasets\\Book1.csv")

#DataFrame

world\_population\_dataframe

#Grouping Individual country

uk\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

uk\_data = uk\_grouped.get\_group("United Kingdom")

uk\_data.head(100)

us\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

us\_data = uk\_grouped.get\_group("United States")

us\_data.head(100)

ru\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

ru\_data = uk\_grouped.get\_group("Russia")

ru\_data.head(100)

# Generating Line plot

plt.plot(uk\_data['Year'], uk\_data['Population'] , color='red', linewidth=1.0, label="United Kingdom")

plt.plot(us\_data['Year'], us\_data['Population'] , color='blue', linewidth=1.0, label="United States")

plt.plot(ru\_data['Year'], ru\_data['Population'] , color='green', linewidth=1.0, label="Russia")

plt.title('Population') #Title of graph

plt.xlabel('Year') #x-axis

plt.ylabel('Population') #y-axis

plt.legend()

# DRAW THE PLOT

plt.show()

**#Code 2 Bar & Scatter**

#Importing Libraries

import numpy as np

import pandas as pd

import matplotlib.pyplot as plt

#Loading data

world\_population\_dataframe = pd.read\_csv("D:\\Datasets\\Book1.csv")

#DataFrame

world\_population\_dataframe

#Grouping Individual country

uk\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

uk\_data = uk\_grouped.get\_group("United Kingdom")

uk\_data.head(100)

us\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

us\_data = uk\_grouped.get\_group("United States")

us\_data.head(100)

ru\_grouped = world\_population\_dataframe.groupby(world\_population\_dataframe['Country name'])

ru\_data = uk\_grouped.get\_group("Russia")

ru\_data.head(100)

#Generating Bar plot

plt.figure()

plt.bar(us\_data['Year'], us\_data['Population of children under the age of 1'] , color='yellow', width=0.7, label="United States")

plt.bar(ru\_data['Year'], ru\_data['Population of children under the age of 1'] , color='black', width=0.7, label="Russia")

plt.bar(uk\_data['Year'], uk\_data['Population of children under the age of 1'] , color='red', width=0.7, label="United Kingdom")

plt.xlabel("Year") #x-axis

plt.ylabel("under the age of 1") #y-axis

plt.title("Population of children under the age of 1 based on country wise and year wise") #Title of graph

plt.legend()

# DRAW THE PLOT

plt.show()

#Generating Scatter plot

fig = plt.subplots(figsize =(8, 5))

plt.scatter(us\_data['Year'], us\_data['Population aged 90 to 99 years'] , color='Yellow', label="United States")

plt.scatter(ru\_data['Year'], ru\_data['Population aged 90 to 99 years'] , color='Blue', label="Russia")

plt.scatter(uk\_data['Year'], uk\_data['Population aged 90 to 99 years'] , color='red', label="United Kingdom")

plt.xlabel("Year") #x-axis

plt.ylabel("Population aged 90 to 99 years") #y-axis

plt.title("Population aged 90 to 99 years") #Title of graph

plt.legend()

# DRAW THE PLOT

plt.show()