**Assignment 5**

**Roll no – A-44**

**Subject – DAP**

**Code –**

import pandas as pd

import numpy as np

df = pd.read\_csv("population.csv")

print(df.shape)

sample\_size = 30

sample = np.random.choice(df.index, size = sample\_size, replace = False)

print(sample)

sample\_df = df.loc[sample]

print(sample\_df)

print("\n\nMean of population: ")

print(sample\_df['Population (millions)'].mean())

**Output –**

(117, 3)

[ 35 25 58 63 20 61 29 27 44 52 107 54 10 67 111 23 91 30

76 77 18 60 40 106 50 92 55 101 94 114]

Country Population (millions) Year

35 Poland 38 2024

25 South Korea 51 2024

58 Romania 20 2024

63 Guatemala 18 2024

20 Italy 60 2024

61 Kazakhstan 19 2024

29 Argentina 44 2024

27 Spain 47 2024

44 Ghana 31 2024

52 Australia 25 2024

107 Turkmenistan 6 2024

54 Taiwan 24 2024

10 Indonesia 273 2024

67 Senegal 17 2024

111 Congo (ROC) 5 2024

23 Myanmar 54 2024

91 Belarus 9 2024

30 Uganda 43 2024

76 Tunisia 12 2024

77 Bolivia 11 2024

18 France 67 2024

60 Chile 19 2024

40 Peru 32 2024

106 El Salvador 6 2024

50 Ivory Coast 26 2024

92 Tajikistan 9 2024

55 Sri Lanka 22 2024

101 Bulgaria 7 2024

94 Switzerland 9 2024

114 Oman 5 2024

Mean of population:

33.63333333333333