PROJECT 110 - SAMPLING DISTRIBUTION

from google.colab import files

data\_to\_load=files.upload()

import plotly.figure\_factory as ff

import statistics

import random

import pandas as pd

import csv

df = pd.read\_csv("medium\_data.csv")

data = df["reading\_time"].tolist()

fig=ff.create\_distplot([data], ['reading time'], show\_hist=False)

fig.show()

pm=statistics.mean(data)

print("Mean of population is ", pm)

def rsom(counter):

  dataset=[]

  for i in range(0, 30):

    rindex=random.randint(0, len(data))

    value=data[rindex]

    dataset.append(value)

  mean=statistics.mean(dataset)

  return mean

def show\_fig(mlist):

    df = mlist

    fig = ff.create\_distplot([df], ["reading\_time"], show\_hist=False)

    fig.show()

def setup():

  mlist=[]

  for i in range(0, 100):

    smeans=rsom(30)

    mlist.append(smeans)

  show\_fig(mlist)

  mean2=statistics.mean(mlist)

  print("Sampling mean is ", mean2)

setup()

