Date: 11-30-24

Name: Tyler Ponce

Assignment: Population Simulator

Write a program to create a database called ***population\_ (your initials)***. For ex: population\_SM would be my database. Create a table named ***population***with the following fields: 1. ***city***, 2. ***year***, 3. ***population***. Choose 10 cities in Florida and insert data into the ***population***table for the year 2023.

Create a function to simulate population growth for the next 20 years at a 2% growth rate for each year. Insert this data into the ***population***table.

Using matplotlib, create a function to show the population growth for a city. Let the user know the 10 cities as options and ask them to choose one and display the population growth for the city visually. Let the user continue to choose a city until they are done.

Functions:

1. Population Simulator
2. This program will simulate the growth rate of a chosen city from 10 different cities in Florida at a 2% growth rate based on their current pop count for 20 yrs
3. The variables used will be the list of the chosen cities, their current pop count, 20-year time limit, and 2% birth rate
4. The return function will loop the est. growth until the simulation reaches the new population total for each city until the user is done with the program

Logical Steps:

1. The user will input the name of the chosen city
2. The program will recognize the chosen city and its current population
3. The program will then run the growth rate at 2% over the course of 20 years
4. The program will then display the new population count and the year in which it occurs

https://github.com/TheWizard28/COP2373