Giovanni Acireale

Assignment #2

public class assignment2

{

public static void main(String[] strings)

{

double birth = 7.0;

//One birth every 7 seconds

double death = 13.0;

//One death every 45 seconds

double immigrant = 45.0;

//One new immigrant every 45 seconds

int pop = 312032486;

//Assume the current population is 312,032,486

//seconds in an hour: 60 \* 60 = 3,600

//seconds in a day: 3,600 \* 24 = 86,400

//seconds in a year: 86,400 \* 365 = 31,536,000

double year = 31536000.0;

//prints before looping

System.out.println("Starting Population: " + pop);

//rates of births, deaths, and immigrants per second in a year

double birthRate = year / birth;

double deathRate = year / death;

double immigRate = year / immigrant;

//for loop that loops 5 times

for (int i = 1; i <= 5; i++)

{

pop += birthRate + immigRate - deathRate;

System.out.println("Year " + i + ": " + (int)pop);

//displays results

}

}

}

