## Write algorithm for Lab1 here.

## Remember to follow the rules of what makes a good algorithm from Notes #2.

Algorithm:

1. Determine the total number of seconds in one year (using 365 days) => (365 \* 24 \* 60 \* 60)
2. Prompt user to enter the birth rate (seconds between each birth).
3. Prompt user to enter the death rate (seconds between each death).
4. Prompt user to enter the immigration rate (seconds between each new immigrant).
5. Prompt user to enter the current population.
6. Prompt user to enter the number of years into the future.
7. Calculate the number of births per year:

Seconds in a year/birth rate

1. Calculate the number of deaths per year:

Seconds in a year/death rate

1. Calculate the number of immigrants per year:

Seconds in a year/immigrant rate

1. Find the net population change per year (births + immigrants - deaths).
2. Multiply the net population change per year by the number of future years.
3. Add the total population change to the current population to get the future population.
4. Output the future population.
5. Compare the future population with the current population and display whether the population increased or decreased.