## Write algorithm for Lab1 here.

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

Algorithm

# This program solves for the future population of country and sees if it will increase or decrease over time

1. Prompt user to input how many seconds between birth (‘Enter seconds between births: ‘)

1. Prompt user to input how many seconds between death (‘Enter seconds between deaths: ‘)

1. Prompt user to input how many seconds between immigration (‘Enter seconds between immigration: ‘)

1. Prompt user to input the current population of the country (‘Enter the current population: ‘)

1. Prompt user to input how many years in the future (‘Enter years in the future: ‘)

1. Calculate the change in population using the formula

((sec\_per\_year / time between births) + (sec\_per\_year / time between immigrants) – (sec \_per\_year / time between deaths)) \* number of years

1. Calculate the new population using the formula

Current population + Change in population

1. Output the result to the user (‘Your population will be: ‘)

1. Calculate if the population increased or decreased using the condition
2. If Current population < New population, output to user (‘The population increased’)
3. If Current Population > New Population, output to user (‘The population decreased’)