## Write algorithm for Lab1 here.

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

Algorithm

1. Ask user for time between births in seconds and set to birth rate
   1. convert input to float
2. Ask user for time between deaths in second and set to death rate
   1. Convert input to float
3. Ask user for time between migrations and set to immigrate rate
   1. Convert input to float
4. Ask user for current population and set to current population
   1. Convert input to float
5. Ask user for number of years in future projection and set to years into future
   1. Convert input to a float
6. Create variable seconds per year
   1. Set variable equal to 365 \* 24 \* 60 \* 60
7. Create variable births per year
   1. Set variable to seconds per year divided by birth rate
8. Create variable deaths per year
   1. Set variable to seconds per year divided by death rate
9. Create variable immigrants per year
   1. Set variable to seconds per year divided by immigrant rate
10. Create variable population change per year
    1. Set variable to births per year plus immigrants per year minus deaths per year
11. Create variable future population
    1. Set equal to current population plus population change per year times years into future
12. If future population is greater than current population
    1. Set change to increased
13. If future population is less than current population
    1. Set change to decreased
14. Otherwise set change to remained the same
15. Output ‘{years into the future} years, the population will be {future population}’
16. Output ‘the population has {change}’