

## Korn Rojrattanapanya (64010009)

```
package labs.lab1.pro1;

public class Lab1_Pro1_64010009 {

    public static void main(String[] args) {

        final int BIRTHS_PER_SECOND = 7;
        final int DEATHS_PER_SECOND = 13;
        final int IMMIGRANTS_PER_SECOND = 45;

        int current_population = 312032486;

        int days_per_year = 365;
        int hours_per_year = days_per_year * 24;
        int minutes_per_year = hours_per_year * 60;
        int seconds_per_year = minutes_per_year * 60;

        double new_births_per_year = (double) seconds_per_year / (double) BIRTHS_PER_SECOND;
        double new_deaths_per_year = (double) seconds_per_year / (double) DEATHS_PER_SECOND;
        double new_immigrants_per_year = (double) seconds_per_year / (double) IMMIGRANTS_PER_SECOND;
        int new_total_per_year = (int) (new_births_per_year - new_deaths_per_year + new_immigrants_per_year);

        System.out.println("After 0 year: " + current_population);

        current_population += new_total_per_year;
        System.out.println("After 1 year: " + current_population);

        current_population += new_total_per_year;
        System.out.println("After 2 year: " + current_population);

        current_population += new_total_per_year;
        System.out.println("After 3 year: " + current_population);

        current_population += new_total_per_year;
        System.out.println("After 4 year: " + current_population);

        current_population += new_total_per_year;
        System.out.println("After 5 year: " + current_population);
    }
}
```