

Project #1: How old are you?**Objectives:**

- Assembling your first x86 assembly language using NASM
- Learn some basic I/O routines and basic arithmetic operations

Deadline: **October 10, 2015 (Saturday) via Google classroom**

Instructions:

You are to write an x86 assembly program that accepts as input your name, the current year and your birth year. After which, your program should output the string “Hello, <your_name>” and your age is “<compute_age>”. See sample run below:

Filename: surname [1st 7 characters surname (max) + 1st character given name].asm (example:uyr.asm or durantk.asm)

Specifications:

- Clear Screen.
- Input #1: Your name (up of 25 characters)
- Error checking: (a) null input, (b) more than 25 characters long. If error exists, output an appropriate error message and input again.
- Input #2: Current year (up to 4 numeric digits)
- Error checking: (a) null input, (b) more than 4 digits, (c) non-numeric. If error exists, output an appropriate error message and input again.
- Input #3: Birth year (up to 4 numeric digits)
- Error checking: (a) null input, (b) more than 4 digits, (c) non-numeric. If error exists, output an appropriate error message and input again.
- You have to make sure that the current year is **greater than** the birth year
- Display the output
- Prompt the user whether the program will be executed again.
- See the example below for the output.

Rubrics:

1.) Clear Screen	1 pt.	
2.) Enter name	1 pt	
3.) Check for error, with appropriate error message	4 pts	
4.) Enter Current year	1 pt.	
5.) Check for error, with appropriate error message	4 pts.	
6.) Enter Birth year	1 pt.	
7.) Check for error, with appropriate error message	4 pts.	
8.) Check if Current year > Birth year	5 pts	
9.) Output “Hello Name”	1 pt	
10.) Output “You are <age> years old”	25 pts.	
11.) Do you want to continue?	3 pts.	
	50 pts.	

***** Sample Run*****

```
Name: Roger  
Current Year : 2015  
Birth year: 1990
```

Hello, Roger! You are 25 years old right now.

Do you want to continue (Y/N)? **Y**

```
Name: Roger  
Current Year : 1990  
Birth year: 2014
```

Error: Current year is less than the Birth year

Do you want to continue (Y/N)? **Y**

```
Name:  
Current Year : 1990  
Birth year: 2014
```

Error: Name input is empty

Do you want to continue (Y/N)? **N**