CSC 150 – Fall 2017 Assignment Prog2 **Name: …**

Due: Thursday 9/14 9:59pm

Submit to D2L: Complete this Word document. Delete the program/problem “Description”. Paste text, not screenclips.

In your cs.dsunix.net account:

* Create two new programs, p2a.c p2b.c
* Write the C programs as requested below for Program 1 and 2

Program 1: Can do it

Description:

- Input: ask user for age

- Output: messages appropriate

a) can legally consume alcohol or not

b) can vote or not

Code:

**#include <stdio.h>**

**int main()**

**{**

**int age;**

**printf("What is your age?\n");**

**scanf("%d", &age);**

**if ( age < 18 )**

**{**

**printf("You are not old enough to vote or drink\n");**

**}**

**else if ( age < 21 )**

**{**

**printf("You are old enough to vote and die for your country but not old eno$**

**}**

**else if ( age >= 21 )**

**{**

**printf("You are old enough to vote and drink, have fun\n");**

**}**

**return 0;**

**}**

Sample Output:

**h760@cs2:~$ gcc age.c**

**h760@cs2:~$ ./a.out**

**What is your age?**

**18**

**You are old enough to vote and die for your country but not old enough to drink**

**h760@cs2:~$**

Program 2: Years to retirement

Description:

- Assume a person can retire at age 65

- Tell user how many years until they can retire or if they should already be retired

Code:

**#include <stdio.h>**

**int main()**

**{**

**int age, retire;**

**printf("How old are you\n");**

**scanf("%d", &age);**

**retire = 65 - age;**

**if ( age < 65 )**

**{**

**printf("You are %d years from retirement\n", retire);**

**}**

**else**

**{**

**printf("You are able to retire\n");**

**}**

**return 0;**

**}**

Sample Output:

**h760@cs2:~$ nano retire**

**h760@cs2:~$ ./a.out**

**How old are you**

**63**

**You are 2 years from retirement**

**h760@cs2:~$**