MIPS Programming – Homework
DUE: Wed, June 27 10AM (no late submission allowed)
This homework is worth 50 points

This homework must be done **INDIVIDUALLY**. Before starting working on the homework read again the academic integrity policy. Last semester 8 students failed the class due to cheating and plagiarism.

Use ONLY instructions listed in the Integer Instruction Set

(especially when it comes to branches – use only beq, bne or comparisons to zero, no blt, bgt, subi, no multi…) You can use li and move.

Note: for all programs that you will write be sure that you give a **detailed documentation.**
Each program should be commented (documented) with the following information:

1. Your name
   Last modified date:
   Program name

2. Description (what the program does)
   C (or java) -pseudo-code

3. Registers Use (name of registers and what they will store)

Write a MIPS assembly language program that accomplishes the following:

The program will prompt the user to enter an integer n between 0 and 10.
If n is out of range, the program displays an error message and prompts again
else
compute Func(n): if (n = 0 or n=1) return 5
else return 7*Func(n-2) – 8*n;
repeat

NOTE: use recursive function call.
You shouldn't worry for very large values of n (the possibility of an overflow)

Name your program: yourlastname_h2.s

Upload the homework on Blackboard under MIPS_H2

No late submission will be allowed.

No cheating and/or plagiarism are allowed.