

CS 0447 Computer Organization and Assembly Language

Programming Assignment 1 – Memory and Addresses

Write a MIPS program to implement the following:

- a. Declare 3 word variables (**a**, **b**, **c**) with initialized values.
- b. Subtract the value of **b** from **c**, store the result in **a** (**a = c - b**) and print the memory address of **a**.
- c. Declare 3 half-word variables (**d**, **e**, **f**) with initialized values.
- d. Subtract the value of **e** from **f**, store the result in **d** (**d = f - e**) and print the memory address of **d**.
- e. Declare 3 byte variables (**g**, **h**, **i**) with initialized values.
- f. Subtract the value of **h** from **i**, store the result in **g** (**g = i - h**) and print the memory address of **g**.