Info 2207

MIPS Assembly

Lab 5   Dr. Houssein Alaeddine

Exercise 1

    a.   Implement the function Max that determines the maximum of 2 integers.
    b.   Ask user to enter 4 integers then determine the maximum value using the function Max.

Exercise 2

    a.   Write the function char encrypt(char c, int k) that encrypts a character by shifting it by k to the right. Example : encrypt('a',3) -> 'd'
    b.   Write a main program to encrypt a string (maximum 64 characters) entered by the user.

Example: Encrypt ("bonjour", 2) → "dqplqwt".

Exercise 3

Write a MIPS program that includes the following functions:

    •**Create**: an integer array of size N.

    •**Fill**: an integer array of size N.

    •**Print**: an integer array of size N.

    •**Replace**: an integer in an array of size N by 0.

Test the above functions.