

Lab 1

Using MARS simulator to simulate and debug your source code, create a program (using MIPS instruction set) to have the following features:

1. Print out a message string with a welcome message "Welcome to Lab 1 exercise. Please enter your name "
2. Get an input from user to enter his/her name
3. Print out a message string with a hello message and followed by the user's name (e.g. "Hello Adam")
4. Manipulate the user's name to output an encrypted user name with a 7 place displacement (i.e. A=H, d=k, a=h, m=t)
5. Print out the encrypted user name with a short message ("Hi Adam, your encrypted user name is Hkht")
6. End the code
7. Optimise the code using procedures whenever possible.