

# MIPS Assignment 8

## Dynamic Lowercase

### Program

Write a program that takes a user-inputted string and converts it to lowercase, using a while loop.

### *The Input*

Your program will accept a string input via a system call. It should be able to handle a string of up to 1024 bytes in length, not counting the null-terminator.

### *The Output*

For any user-inputted string, your program should output a lowercase version of that string, followed by a newline.

Suppose then the user typed the string “hello this CLASS is cool !” and pressed the enter key.

A correct program would output the following:

```
hello, this class is cool !
```

### *Assignment Tag*

For this assignment, use the following *Assignment tag*: `Mips8DynamicLowercase`

### *Hints*

This assignment is almost identical to assignment 7, except for the following:

- Your program must be able to convert any user-inputted string to lowercase, rather than one hard-coded string.
- The correct system call for user input will automatically add a null-terminator to the end of the user-inputted string, so you can use that to dynamically determine its end.

Your first guess about the length of your buffer is probably wrong. Re-read the “The Input” section again.