

National Sun Yat-Sen University
ASSEMBLY LANGUAGE AND MICROCOMPUTER
Programming Assignment #1
Due 11:00 PM Fri Oct 31 2016

1. <**Programming Problem I**> Write an ARM assembly code to implement a ***prog1*** program which can remove the space and numbers (0-9) of the input string. In addition, it will also convert the capital letters into the small ones. The result will be printed into the screen. For example, when you execute this program as follows:

arm-none-eabi-run prog1 "Tom is 8 years old."

Then the screen should show the following result:

The string output: tomisyearsold.

Note:

- (a) For this programming homework, please download the template assembly program from the course website. You can refer to the sample code shown in the course website.
- (b) You should submit a compressed file (named as your student ID, ***B033040001.rar*** for example) which contains an .out file (named as ***a.out***) and an assembly code (named as ***a.s***). You should upload it to NSYSU Cyber University before the deadline.
- (c) Homework submitted after the deadline will not receive any score.