CmpE102 Spring 2017 Programming Assignment 2

Due Date: 6 Mar. 2017

Do this assignment individually.

Construct a "sandbox" program template and run the following short instruction sequences in GDB or your choice of debugger. Single-step and use register display to determine the result. Print the results as screenshots and provide a brief explanation of the results.

Note that these are all byte operations.

- 1. mov al,01101111b and al,00101101b
- 2. mov al,6Dh and al,4Ah
- 3. mov al,00001111b
 or al,61h
- 4. mov al, 94h xor al, 37h
- 5. mov al,7Ah sub al,67h
- 6. mov al, 3Dh add al, 34h
- 7. mov al, 9Bh not al
- 8. mov al,37h neg al

Note: You should also be able to do these calculations on paper.