

HW6

- Due Mar 24 by 5pm
- Points 100
- Submitting a file upload
- File Types docx, pdf, asm, and lst
- Available Mar 16 at 8am - Mar 26 at 5pm

This assignment was locked Mar 26 at 5pm.

HW # 6: Stacks and Procedures

All main questions carry equal weight. Credit awarded to only those answers for which work has been shown

1. [Procedures] Write a main procedure which inputs the keyboard value entered as an integer (either a 0 or 1) into the register BL. The main procedure calls *DisplayName* which in turn will print your name in **blue** or **red** color depending upon the whether BL is 0 or 1. Single step through the program, displaying the values of the stack pointer so that you understand how the call and return are implemented.
2. [Arrays] Write a program that:
 1. Prompts the user for integer input 4 times
 2. Stores these inputs in a stack using the Push instruction
 3. After the storing is complete in Step 2, pop the stored values and display them on the screen using WriteInt (notDumpRegs).

Use the following:

```
.data
PromptUser BYTE "Please enter a value:", 0
```

In your submission, please embed the full program (.asm and .lst file) and one screen shot with at least one positive and one negative input value.

(<https://auburn.instructure.com/courses/1645612/files/256838481/download?wrap=1>).