# Assignment 6 - Your First C Program

## A Simple C Program

Write a C program that does the following:

* Creates three unsigned chars (val1, val2, val3). Initializes them to 0x40, 0x35, and 0x42.
* Creates three unsigned chars (result1, result2, result3). Initializes them to 0.
* Checks each number against a threshold value of 0x38.
* If val1 is greater than the threshold value, stores the [10th Fibonacci number](http://en.wikipedia.org/wiki/Fibonacci_number) in result1 by using a for loop.
* If val2 is greater than the threshold value, stores 0xAF to result2.
* If val3 is greater than the threshold value, subtracts 0x10 from val2 and stores the result into result3.

Additional Requirements:

* The threshold value must be a properly defined constant (refer to the lesson notes if you are confused by this requirement).
* Comment your code. In particular, provide a good file header (example provided in lesson notes).

## Turn-In Requirements (Bitbucket)

* Main source code file (main.c).
* Debugger screenshots to prove to the instructor that your code functions correctly.
* Answers to the following questions in readme.md file:
  + Exactly where in memory on the microcontroller are your variables stored?
  + How do you know?

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| M2 Cadet Name | Source Code | Screen shots | Q #1 | Q#2 | Assign 6 Notes |
| Davis, Cameron |  |  |  |  |  |
| Gannon, Connor |  |  |  |  |  |
| Hanson, Tylar |  |  |  |  |  |
| Mireles, Lucas |  |  |  |  |  |
| Renne, Caitlyn |  |  |  |  |  |
| White, Andrew |  |  |  |  |  |
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| M6 Cadet Name | **Source Code** | **Screen shots** | **Q #1** | **Q#2** | **Assign 6 Notes** |
| Blumas, Justin |  |  |  |  |  |
| Constantino, Colt |  |  |  |  |  |
| Evans, Casey Gail |  |  |  |  |  |
| Johnson, John |  |  |  |  |  |
| Kempema, Calder |  |  |  |  |  |
| Orikogbo, Oluwayemisi |  |  |  |  |  |
| Pluger, Jason |  |  |  |  |  |
| Prado, Ross |  |  |  |  |  |
| Schnall, Robert |  |  |  |  |  |
| Tunitis, Daniel |  |  |  |  |  |
| Yi, Terrence |  |  |  |  |  |

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| Davis, Cameron | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | 50/50 |
| Debugger screenshots | Shows proof of functionality | 0/30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | 10/10 |
| Answers to Question 2 | How do you know? | 10/10 |
| Total |  | 70 |

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| Gannon, Connor | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Hanson, Tylar | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Mireles, Lucas | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Renne, Caitlyn | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| White, Andrew | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Blumas, Justin | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Constantino, Colt | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Evans, Casey Gail | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Johnson, John | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Kempema, Calder | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Orikogbo, Oluwayemisi | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Pluger, Jason | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Prado, Ross | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Schnall, Robert | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Tunitis, Daniel | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |

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| Yi, Terrence | Notes | Score |
| Main source code file | Pushed main.c code file and it contains good comments and header | /50 |
| Debugger screenshots | Shows proof of functionality | /30 |
| Answers to Question 1 | Exactly where in memory on the microcontroller are your variables stored? | /10 |
| Answers to Question 2 | How do you know? | /10 |
| Total |  |  |