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| Task 1 | |
| Folder: | variables\_numerical\_operators |
| File to open: | variables\_numerical\_operators.sln (will have a VS icon) | |
| Lazy: | [C:\Users\thomaskn\Documents\GitHub\PracticeCodeRepo\variables\_numerical\_operators\variables\_numerical\_operators.sln](file:///C:\Users\thomaskn\Documents\GitHub\PracticeCodeRepo\variables_numerical_operators\variables_numerical_operators.sln) | |
| File to do the coding in: | variables\_numerical\_operators.cpp | |
| Task: | Write an application which given an age, will find out how old they are in days, weeks and months.  bonus -> If there age is above 100 divide it by 2 then do the calculations. | |
| Skills Learnt: | Declaring variables, mathematical operations, data types(arrays) | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/variables/>  <http://www.cplusplus.com/doc/tutorial/constants/>  <http://www.cplusplus.com/doc/tutorial/operators/>  <http://www.cplusplus.com/doc/tutorial/arrays/> | |
| Completed: |  | |

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| Task 2 | |
| Folder: | BasicInputOutputProject |
| File to open: | BasicInputOutputProject.sln (will have a VS icon) | |
| File to do the coding in: | BasicInputOutputProject.cpp | |
| Task: | Create a program which tells a user to input some details, stores these details, and checks whether the details are valid, if not displays error. | |
| Skills Learnt: | Using Basic Input and Output | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/basic_io/> | |
| Completed: |  | |

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| Task 3 | |
| Folder: | logic\_if\_switch |
| File to open: | logic\_if\_switch.sln (will have a VS icon) | |
| File to do the coding in: | logic\_if\_switch.cpp | |
| Task: | Create a program which given a persons test score, gives them an appopriate grade. Also needs to have checks against the score inputted | |
| Skills Learnt: | Logic(control structures) IF, SWITCH and WHILE | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/control/> | |
| Completed: |  | |

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| Task 4 | |
| Folder: | FunctionsAndUserInputPart2 |
| File to open: | FunctionsAndUserInputPart2.sln (will have a VS icon) | |
| File to do the coding in: | FunctionsAndUserInputPart2.cpp | |
| Task: | Make this application ask the user for their name, then their age, then print both of these values. Function declarations already put below | |
| Skills Learnt: | Functions. | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/functions/> | |
| Completed: |  | |

**Task 5:**  
Read this: <http://www.cplusplus.com/doc/tutorial/namespaces/>

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| Task 6 | |
| Folder: | CharacterSequences |
| File to open: | CharacterSequences.sln (will have a VS icon) | |
| File to do the coding in: | CharacterSequences.cpp | |
| Task: | Make this application ask the user for their name, then their age, then print both of these values. Function declarations already put below | |
| Skills Learnt: | Character sequences | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/ntcs/> | |
| Completed: |  | |

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| Task 7 | |
| Folder: | PointersPracticeProject |
| File to open: | PointersPracticeProject.sln (will have a VS icon) | |
| File to do the coding in: | PointersPracticeProject.cpp | |
| Task: | Create an application that lets the user fill an array with integers. Then create a function which accepts two integer pointers and swaps them around, then reads them out | |
| Skills Learnt: | PointersPracticeProject | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/pointers/> | |
| Completed: |  | |

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| Task 8 | |
| Folder: | Dynamic\_memory\_allocation |
| File to open: | Dynamic\_memory\_allocation.sln (will have a VS icon) | |
| File to do the coding in: | Dynamic\_memory\_allocation.cpp | |
| Task: | Create an application that uses Dynamic Memory allocation to let the user enter in any amount of numbers they want, then any number of names | |
| Skills Learnt: | Dynamic\_memory\_allocation | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/dynamic/> | |
| Completed: |  | |

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| Task 9 | |
| Folder: | Data\_Structures |
| File to open: | Data\_Structures.sln (will have a VS icon) | |
| File to do the coding in: | Data\_Structures.cpp | |
| Task: | Create a program which will use data structures to hold a persons purchase information when visiting. A supermarket and displays what they have bought and what the store names was, their name, etc...  Two different data structures are needed, one for the person, and one for the store. | |
| Skills Learnt: | Data\_Structures | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/structures/> | |
| Completed: |  | |