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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 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: | Data\_Structures | |
| Help links: | <http://www.cplusplus.com/doc/tutorial/structures/> | |
| Completed: |  | |