Lab 6b:

Create a program that uses a while loop controlled by a Boolean flag. The program will prompt the user for the input of an ‘M’, ‘H’ , ‘S’ or ‘E’. Echo to the screen a message stating the employees filing status. Report “married” for ‘M’, “single” for ‘S’, “Head of Household” for ‘H’ and “Exempt” for ‘E’. If the user enters any other character change the value in the Boolean in such a way as to terminate the execution of the program after issuing an error message.

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| --- | --- | --- | --- |
| Value Input | Expected Results | Actual Results | Reason if Different |
| h | Display “Head of Household” output | Display “Head of Household” output | None |
| M | Display “Married” output | Display “Married” output | None |
| z | Display Error | Display Error | None |
| 4 | Display Error | Display Error | None |

Evaluation:

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| Aspect | Objectives substantially met  90 – 100% | Meets Minimal Requirements  80-89% | Needs Improvement  79 – 79% | Failure to Meet Requirements  0 - 69% |
| Good Programming Practices  10% | Effective use of white space.  Clear and appropriate documentation.  Implements all needed error handling.  Data types and identifiers meet all expectations. | Use of white space and documentation with minor defect. Implementation of error handling general but lacking in minor aspects.  Selection of data types and / or creation of identifiers not consistent. | Generally meets expectations for good programming practices. | In the main does not meet expectations for good programming practices. |
| Iterative Structures  40% | All iterative structures appropriate to the algorithm proposed.  Control variables correctly formed and modified for program control |  |  |  |
| Accuracy of Output  50% | All output correct and supported with appropriate testing. | With minor exceptions the output is correct and testing may be missing some needed test cases. | Only part of the output is correct as a result of inadequate test cases. | Only some of the output is correct as a result of missing or misused test cases. |