**Programming Assignment Rubric**

**Course #: PROG 2100**

**Assignment #: 4 (“Conversion”)**

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| **Actions for Criteria**  **Criteria** | **Actions for Excellent**  **Excellent** | **Actions for Good**  **Good** | **Actions for Acceptable**  **Acceptable** | **Actions for Missing / Unacceptable**  **Missing / Unacceptable** |
| **Actions for SAAD - Testing DocumentationSAAD - Testing Documentation** | 10 points  Testing document shows all possible inputs and expected results and includes both positive and negative cases. | 7 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 5 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Solution developed to specificationSolution developed to specification** | 10 points  Program performs to all specifications | 7 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 5 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Code testing - Syntax / LogicCode testing - Syntax / Logic** | 15 points  Code is free of syntax / logic errors | 10 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 5 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for User interfaceUser interface** | 5 points   Functional, appropriate and easy to use | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Code ReadabilityCode Readability** | 5 points  Well documented, formatted, variables and other program elements named appropriately | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Header FilesHeader Files** | 5 points  Solution implements header files with appropriate  pre-processor directives and guards. | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Reading cpp fileReading cpp file** | 5 points  Solution includes routine to read from a cpp file. | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Writing html fileWriting html file** | 5 points  Solution includes routine to write to an .html file. | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for File name and path requisitionFile name and path requisition** | 10 points  Solution requests file name for both the cpp file being read and html file being written. | 7 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 5 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Custom String Replace MethodCustom String Replace Method** | 15 points  Solution implements a custom routine similar to a library string replace function (i.e. **don’t use a pre-built function**) and replace “< >” tags and add “<PRE> </PRE>” tags to the html file. | 10 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 7 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for File Stream MethodsFile Stream Methods** | 5 points  Solution implements fin.fail() and fout.fail() methods appropriately | 3 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 2 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Exception HandlingException Handling** | 10 points  Solution contains appropriate “try/catch” implementations. Minimum around all file read/write and file close routines. You must provide examples of: **library & default & programmer created exceptions.** | 7 points  Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | 5 points  Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | 0 points  Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Actions for Overall Score**  **Overall Score** | **Actions for Level 4**  **Level 4 39 or more** | **Actions for Level 3**  **Level 3 29 or more** | **Actions for Level 2**  **Level 2 19 or more** | **Actions for Level 1**  **Level 1 0 or more** |