**Programming Assignment Rubric**

**Course #: PROG 2100**

**Assignment #: 1 (“Conversion”)**

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| **Criteria** | **Excellent** | **Good** | **Acceptable** | **Missing / Unacceptable** |
| **Solution developed**  **to specification** | **10 points** | **7 points** | **5 points** | **0 points** |
| Program performs to all specifications and is free of syntax and logic errors. | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Code Readability** | **5 points** | **3 points** | **2 points** | **0 points** |
| Well documented, formatted, variables and other program elements named appropriately. | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **User interface** | **5 points** | **3 points** | **2 points** | **0 points** |
| Functional, appropriate and easy to use. | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Reading cpp file** | **5 points** | **3 points** | **2 points** | **0 points** |
| Solution includes routine to read from a cpp file without error. | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Writing html file** | **5 points** | **3 points** | **2 points** | **0 points** |
| Solution includes routine to write to an HTML file without error. | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **File name & path requisition** | **20 points** | **15 points** | **10 points** | **0 points** |
| Solution requests file name for both the cpp file being read and html file being written with **correct validation** for a Windows file | Implemented but contains at least one issue / error and or is close but not perfectly written to specification | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |
| **Custom String**  **Replace Method to Replace tags** | **20 points** | **15 points** | **10 points** | **0 points** |
| Solution implements a **custom** routine like a library string replace function | Implemented custom routine but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification | Component is either missing, contains significant issues / errors, and or does not meet the specifications |
| **File Stream Methods** | **10 points** | **7 points** | **5 points** | **0 points** |
| Solution implements fin.fail() and fout.fail() methods appropriately | Implemented but contains at least one issue / error and or is close but not perfectly written to specification. | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications |
| **Exception Handling**  **Library**  **Default &**  **Programmer** | **20 points** | **15 points** | **10 points** | **0 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.** | Implemented but contains at least one issue / error and or is close but not perfectly written to specification | Some aspects implemented but with multiple issues / errors and or is not written exactly to specification. | Component is either missing, contains significant issues / errors, and or does not meet the specifications. |