

|    |                       | Expectation  | ✓ = 1 pt |
|----|-----------------------|--|----------|
| 1  | 1) Boolean Board      | Boolean Board Screen Capture included  |          |
| 2  |                       | with correct logic for Top Light   |          |
| 3  |                       | with correct logic for Middle Light  |          |
| 4  |                       |  |          |
| 5  |                       | with correct logic for Bottom Light  |          |
| 6  | 2) Truth Table Script | Script for truth table is provided with appropriate comments   |          |
| 7  |                       | Sets up a logic variable for each of the three input buttons including calculating how many cases are needed ( $2^3 = 8$ ) to cover all possible combinations. |          |
| 8  |                       | Program creates the desired truth table with a column for each input variable and a column for the Middle Light  |          |
| 9  |                       | Logic for Middle light included in code and correct  |          |
| 10 |                       | Execution with truth table. Table is correct and matches code  |          |
| 11 | 3) Make Even Function | A complete Visio-drawn flow chart is included  |          |
| 12 |                       | Code included with appropriate comments including a helpful introduction, variable definition and logic identified   |          |
| 13 |                       | Code has essentially correct logic   |          |
| 14 |                       | Code includes completely correct logic that will run   |          |
| 15 |                       | Validation covers values above, below and within QC range<br>Compared with known correct ranges.   |          |
| 16 | 4) QC Function        | Program Development work sheet Setup Completed including 1) goal, 2) inputs 3) outputs, and 4) test calculations & program logic                               |          |
| 17 |                       | Code included with appropriate comments including a helpful introduction, variable definition and logic identified   |          |
| 18 |                       | Code includes completely correct logic that will run   |          |
| 19 |                       | Validation runs included   |          |
| 20 |                       | Validation covers values above, below and within QC range<br>Compared with known correct ranges.   |          |

✓ = Full Credit

∂ = Partial, ½ Credit

+ or - = Plus or Minus up to ¼ Credit