

VBA Assignment #1 - Functions

Objectives: Students will be able to...

- ...write a function in VBA for Excel.
- ...connect logic and prior learning of mathematics to solve a problem through computer programming.

Directions:

- This is an **independent** assignment. You may **not** work with others. You may **not** look at anyone else's code or logic. You may use code that we developed in class as a group.
- Create a function in VBA that will accomplish the following criteria...
 - Input
 - The three color bands from a resistor (in order)
 - Output
 - The value of the resistor in ohms.
 - Make the function work with three colors. (Optional: Make it work for four color bands in addition to the three.)
 - Optional: make the function output the value with an appropriate metric prefix.
Example $1,000,000 \Omega = 1M\Omega$.
- Other things to include
 - Make a comment in the function that you are the author.
 - Include many comments to document your code.
- Turning in
 - In your H:\ drive, place your file in the "SRT 2 Turn In" folder
 - Filename: *YourLastName_YourFirstName_Function.xlsm*
 - Place your file in the above mentioned folder, before class on _____.

Grading:

- Correctly turned in *1 point*
- Correctly handles input. *4 points*
- Appropriate use of comments and formatting (use of tab) are in the code. *3 points*
- Has code that correctly converts the color to a number. *5 points*
- Implements the appropriate mathematics to combine the three color bands represented by numbers. *3 points*
- Correctly outputs the resistance. *4 points*
- Additional credit is awarded according to the sophistication of the optional feature.