

## Assignment: EXCEL 2010 Lab 5

### Answer each question on a separate spreadsheet

1. Create a button on the student grade roster (roster1) that uses *mean()*, *median()*, and *standard deviation ()* functions to compute these statistics for the test scores, and outputs the results to separate cells on the spreadsheet.

[10 points]

2. Create a program that takes the numerical test score for each student in the roster (roster1) and uses an **IF** statement to determine if the grade is pass or fail, and returns the string “pass” or “fail” to a cell on the spreadsheet.

- Grade  $\geq 75$  is “pass”
- Grade is “fail” otherwise

[10 points]

3. Create custom button that will run through the class roster (roster2) test scores and assign the correct grade according to the Valencia College grading policy for A, B, C, etc.

Include a message box to caution the user that wrong information has been entered, and returns “wrong data” on the spreadsheet next to the missing or wrong score.

Your button should also activate a message box to alert users that it has successfully run to completion.

[10 points]

4 Create a custom button that has all the functionality of the button you created in Question 3 but in addition does the following:

- alerts the user with a message box that the program is about to run and enables the user to choose to proceed or stop.
- highlights the student with the high score by filling the cell containing the name and the score in yellow with red font.
- highlights the student with the average score by filling the cell containing the name and the score in a light shade of green with blue font.
- a message box to alert users that the program has successfully run to completion.

[10 points]

5. Create a custom button that will perform the following on the bridge data:

- Convert the “County Code” of each bridge to the actual County name as given in the Florida Counties list provided.
- Calculate the age of each bridge
- Calculate the number of trucks that drive on each bridge daily
- Provide telemetry so that as users cannot scroll to see what the program is doing, the row where the program is currently working is displayed
- Autofit columns so that results are easily readable
- Alert users that the program has successfully completed all tasks

[10 points]