



LEBANESE AMERICAN UNIVERSITY
Electrical and Computer Engineering Dept

COE 201
Computer Proficiency

Fall 2017

Assignment 2

Question 1

Student Name	Percent Grade	GPA(4.0 Scale)	Standing
Std1			
Std2			
Std3			
Std4			
Std5			

Average(4.0)	
Highest Grade(4.0)	
Lowest Grade(4.0)	
Standard Deviation(4.0)	
Number Of High Distinction(s) (4.0)	

1. Rename "sheet1" as "**Part 1**" and replicate the above tables.
2. The shaded cells should be computed using functions. For a better understanding of the role of each function, you should consider the following:
 - The column **GPA** calculates the 4.0 scale of the **Percent Grade** using the following calculation scheme:
$$\text{GPA} = ((\text{Grade} + 10) / 110) * 4$$
 - The **Standing** is dependent on the value of the **GPA** in a way that:
 - Current GPA ≥ 3.8 , the student will have a standing of **High Distinction**
 - Current GPA ≥ 3.5 , the student will have a standing of **Distinction**
 - Current GPA ≥ 3.2 , the student will have a standing of **Honor**
 - Current GPA ≥ 2.0 , the student will have a standing of **Good**
 - Current GPA < 2.0 , the student will have a standing of **Probation**

- **Average** should compute the 4.0 scale average of all students.
- **Highest Grade** should compute the highest grade of all students.
- **Lowest Grade** should compute the lowest grade of all students.
- **Standard Deviation** should compute the standard deviation of all grades.
- **Number of High Distinctions** should count the number of high distinction students

3. Rename "Sheet 2" as "**Part 2**" and create the following table.

4. The shaded cells should be computed using functions which, upon entering the student name, display the corresponding GPA and Standing (according to the information filled in sheet 1)

Student Name	GPA(4.0 scale)	Standing

Question 2

Given the following information:

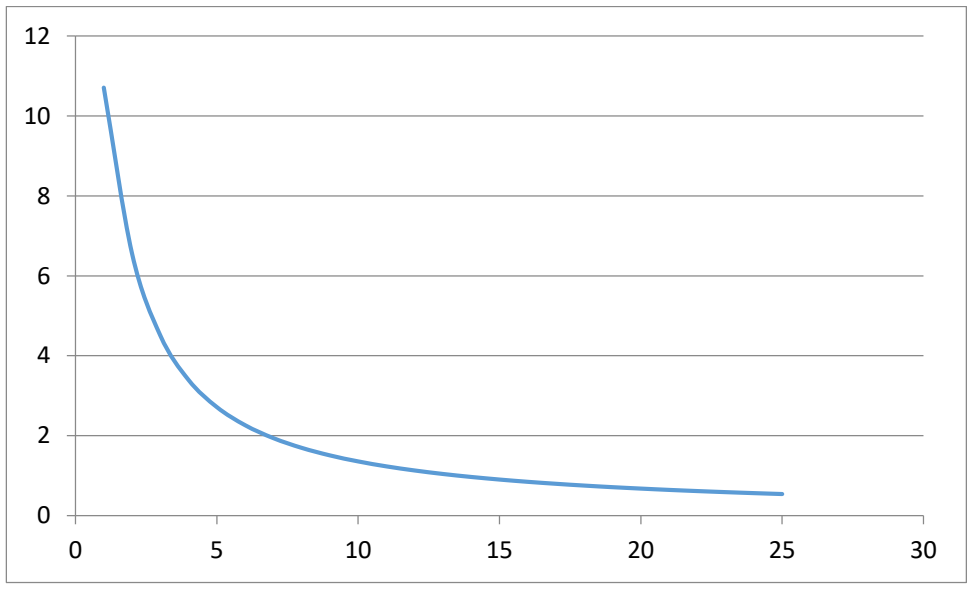
Name	Grade	Raise	Final Grade
Smith1	76		
Smith2	46		
Smith3	55		
Smith4	82		
Smith5	41		
Smith6	66		
Smith7	75		
Smith8	58		
Smith9	68		
Smith10	71		
Raise Value	2.50%		
Average			

1. Replicate in sheet3 the above table.
2. Write the function for the **Raise** and **Final Grade** fields.
3. You need to determine the raise value that would result in an average of 75/100. (The Raise and Final Grade field should automatically change when Raise Value changes).
4. Protect the sheet by locking the Raise, Final Grade, Raise Value and Average fields. Set the password to: 123456

Question 3

1. In Sheet4 of this book, plot the function $y = \frac{5}{x} e^{\tanh x}$ on an x-axis/y-axis.

Hint: the curve will look as follows. Make sure that you also change the format as shown in the figure below.



Due Date:

The assignment should be submitted to Blackboard under Assignment 2 Submission panel. It is due on October 16th 11:00 pm. Late submissions will be penalized.