Objectives

- Data Types and Formatting
- Cell Referencing
- Formulas and Precedence of Operations
- Logical Functions

Part 1

- 1. Make sure your tables look like the ones shown below
 - Font "courier new" of size 14
 - Row height 22.5 and column width 21
 - Excel sheet should be named "Profits"
 - The text data "titles" must be bold, font 15, color "50 red, 85 green", center, top align
 - Create a copy of the sheet in the same book and give it the name "copied"
 - Use 1000 separator, with no decimal places
 - Inside and outside borders
 - Apply currency format for Dell column, but make the two other companies accounting

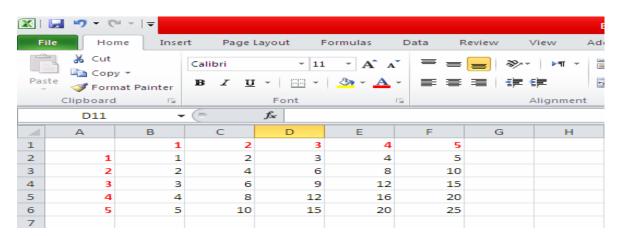
company	Dell		HP		Toshiba
January	\$350 , 000	\$	260,000	\$	300,000
February	\$500 , 000	\$	490,000	\$	370,000
march	\$240,000	\$	200,000	\$	250,000
April	\$400 , 000	\$	300,000	\$	250,000
May	\$520 , 000	\$	410,000	\$	360,000
June	\$300 , 000	\$	320,000	\$	400,000
July	\$200 , 000	\$	250,000	\$	260,000
August	\$400 , 000	Ş	600,000	Ş	400,000
September	\$1,000,000	\$	720,000	\$	560,000
October	\$500 , 000	Ş	520,000	Ş	530,000
november	\$370 , 000	\$	390,000	\$	400,000
December	\$100 , 000	\$	120,000	\$	140,000

• Merge cells, shrink to fit, wrap text and format painter

conclusion			
dell	number 1		
HP	number 2		
Toshiba	number 3		

Part 2

2. Create a function in the first cell, that will be dragged all over the other cells, to calculate the multiplication of each column header by each row header; as shown in the figure below



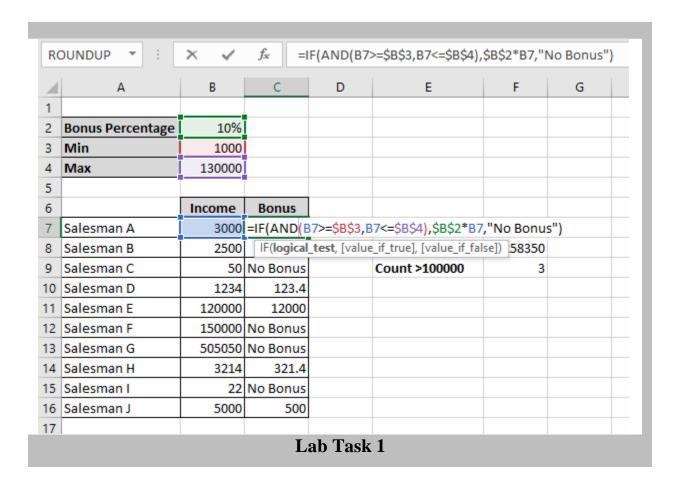
Part 3

- 3. Open a new sheet, rename it "Formulas"
- A. Label column A as X and column B as Y.
- B. Let X = 1,2, ..., 10 and Y = 2,4, ..., 20
- C. From column C till G name them as f1, f2, ..., f5. Calculate them where:
 - 1. $f1 = 2x^3 6x^2$
 - 2. $f2 = 4 * Y^3/4 sqr(Y+3)$
 - 3. $f3 = \sin x + \cos x$
 - 4. $f4 = 3 tan^2x$
 - 5. $f5 = 6 \log(x^2+1)-x$
- D. Based on the results, calcarulate the following:

- a. Count the data values
- b. Max and Min value
- c. Range
- d. Variable Z = sum(X/Y)

Part 4

- 4. Open the sheet named "Calculation"
 - Construct a function called "Bonus" that calculates for each salesman the amount of his bonus as follows:
 - 1. When the income is more than or equal the min value **and** less than or equal the max value, it will multiply the bonus percentage by the income.
 - 2. Otherwise, it will show message "No Bonus".
 - Compute the average for the income if it is greater than 100000
 - Count the incomes that are greater than 100000.



- Open new sheet, name it "Fruits", write in it the below table.
- a) Calculate the number of cells containing values greater than 50.
- b) Calculate the number of cells containing fruit type "apples" and values less than 90.
- c) Get the total number of all types of fruits

Fruit Data	Number Data		
apples	86		
oranges	54		
peaches	75		
apples	32		