Advance Excel Assignment 2

1. What does the dollar($) sign do?

   Dollar sign in excel can change the referencing in the formula. It means when a formula is copied and pasted into another cell, the formula will change its reference points by the exact number of columns and rows to that you moved the formula.

2. How to Change the Reference from Relative to Absolute (or Mixed)?

   Highlight the cell containing the formula you want to change to an absolute or relative reference. if you wanted to reference cell A1 on Sheet1, its cell reference would be Sheet1!A1. f a worksheet name contains a space, you will need to include single quotation marks (' ') around the name.

   Click the formula box and press F4 key to switch between absolute and relative cell reference

3. Explain the order of operations in excel?

   Excel follows a standard math protocol called "order of operations". In general, Excel's order of operation follows the acronym PEMDAS (Parentheses, Exponents, Multiplication, Division, Addition, Subtraction) but with some customization to handle the formula syntax in a spreadsheet.

   First, any expressions in parentheses are evaluated. Parentheses essentially override the normal order of operations to ensure certain operations are performed first.

   Next, Excel will resolve references. This involves replacing cell references like A1 with the value from the cell, as well as evaluating range references like A1:A5, which become arrays of values. Other range operations like union (comma) and intersection (space) also happen at this time.

   Next, Excel will perform exponentiation, negation, and percent conversions (in that order), followed by multiplication and division, addition and subtraction, and concatenation. Finally, Excel will evaluate logical operators, if present.

4. What, according to you, are the top 5 functions in excel and write a basic syntaxfor any of two?

   1. Sum function – Syntax   =sum(num1:num2)
   2. Average function – Syntax   =Average(num1,[num2],..)
   3. Text function
   4. Vlook up function
   5. Concatenate function

5. When would you use the subtotal function?

   The Subtotal function in excel allows users to create groups and then perform various other excel functions such as SUM, COUNT, AVERAGE, PRODUCT, MAX, etc. thus, the subtotal function in excel helps in analyzing the data provided.

Subtotals help us to get the totals of several columns of data broken down into various categories. The subtotal function is designed for columns of data, or vertical ranges. It is not designed for rows of data, or horizontal ranges

6. What is the syntax of the vlookup function? Explain the terms in it?

    =VLOOKUP(**lookup_value**, **table_array**, **col_index_num**, [**range_lookup**])

    Lookup_value: Select the cell where search values will be entered.
    Table_array: The table range, including all cells in the table.
    Col_index_num: The data which is being looked up. The input is the number of the column, counted from the left:
    Range_lookup: TRUE if numbers (1) or FALSE if text (0)