Advanced Spreadsheets and Decision Support Systems

**Computing Session 9**

**Exercise 1**

Open the file **Ranges.xls** available on Moodle. Run the subroutines and watch what they do. Analyze the code carefully to learn how to specify ranges and perform different operations with them.

**Exercise 2**

Download the file **SalesData.xls** from Moodle. The file contains monthly sales amounts for 40 sales regions. Write a sub for each of the following tasks.

1. Create a range name for the column header range (B1:M1), a name for the row header range (A2:A41), and a name for the sales data range (B2:M41).
2. Use a For loop to colour the interior of every other row (rows 1, 3, 5, etc.) gray. Use ColorIndex 15 for gray, and colour only the data area, columns B-M. Display a message stating that the formatting has been applied.
3. Restore the original formatting (use the “Normal” value of the “Style” property of a Range object). Displays a message stating that the original formatting has been restored.
4. Repeat the task in part b) but this time use two different colours to colour the interior of every other row (e.g., pink for rows 1, 3, 5 etc. and yellow for rows 2, 4, 6).
5. Change the font of the column and row headers (regions and months) as follows: i) boldface the font; ii) increase the font size to 16pt; iii) change the text colour to blue. Adjust the column width if necessary. Use the “With” statement to make your code more readable.

Hint: Open the file **Color.xls** to see otherpossible values for the ColorIndex property of the Font or Interior of a Range.

**Exercise 3**

Starting with the original **SalesData.xls** from the previous exercise, write a sub that italicizes each monthly sales amount that is greater than $12,000 and changes the font colour to red for each label in column A where the yearly sales total for the region is greater than $130,000. Use message boxes to display the yearly sales total for each region. Create a button in your spreadsheet to run this sub and customize its appearance.