**P07-Chapter 8 Programming/Code Assignment**

Use the last program that you wrote that calculated the trigonometric functions of Sine, Cosine, and Tangent. Modify so that the first line or welcome line shows the current date in the mm/dd/yyyy form. Next modification is to accept a day (enter-date) in the mmddyyyy form, this date must be after 12/31/1601. You will calculate a date range. The Beg Range date is 100 days before the enter-date and the End-Range-Date is 100 days after the enter-date. You will display the day of the week (www) for the enter-date and range dates.

The day of the week (www) will appear as the following: Mon, Tue, Wed, Thu, Fri, Sat, Sun

The information will be display in the following line:

Date Entered: www, mm/dd/yyyy Range: www, mm/dd/yyyy thru www, mm/dd/yyyy

Here are code snips to find the day of week for your dates that are entered and calculated.

p-gEnter is a Gregorian Date moved to p-day-in.

it returns the "Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun" in the p-DoW-out

Working-Storage section.

05 p-day-in pic 9(09).

05 p-DoW-out pic x(03).

05 p-gEnter pic 9(09).

Procedure Division.

    move p-gEnter  to p-day-in

    perform 200-set-DoW

    move p-DoW-out to d-enter-date-dow.

200-set-DoW.

    move spaces to p-DoW-out.

    compute p-DoW = function rem(p-day-in, 7)

    evaluate p-Dow

     when 1 Move "Mon" to p-DoW-out

     when 2 move "Tue" to p-Dow-out

     when 3 move "Wed" to p-DoW-out

     when 4 move "Thu" to p-DoW-out

     when 5 move "Fri" to p-DoW-out

     when 6 move "Sat" to p-DoW-out

     when 0 move "Sun" to p-DoW-out

end-evaluate.