

Cours 2 - SWITCH examples

```
%Example of application of switch - script
jour = input('Quel jour sommes nous ? ','s');
switch jour
    case 'lundi'
        jr = 5;
    case 'mardi'
        jr = 4;
    case 'mercredi'
        jr = 3;
    case 'jeudi'
        jr = 2;
    case 'vendredi'
        jr = 1;
    otherwise
        jr = 0;
end
disp([ 'Encore ' num2str(jr) ' jours avant le weekend' ])
```

```
function write_2_file( data, filename, ext )

%function to write given data matrix to chosen file type, as specified
%by ext. Code allows only 2D matrices

datasize = size(data);

fullname = [filename '.' ext]; %create full name

switch (ext)
    case 'mat' %save data in Matlab format
        save ( fullname, 'data')

    case 'txt' %save data as formatted text, (assume numeric data only)
        formatstr = '%f'; %assume at least one column
        if datasize(2) > 1 %if more than 1 column
            for i = 2:datasize(2) %for 2nd to last column, add a format str
                formatstr = [formatstr '\t%f']; %TAB delimiter
            end
        end
        formatstr = [formatstr '\n']; % end of line

        id = fopen( fullname, 'wt'); %open output file
        if id>0 %only proceed if fopen successful

            fprintf(id, formatstr, data'); %don't forget the transposition
            fclose(id);
        else
            %display a pertinent warning if fopen failed
            warning('file OPEN unsuccessful')
        end

    case 'xls' %save data in xls fileformat
        header = 'xls file generated by write_2_file matlab function';

        %generate column headings

        for i = 1:datasize(2)
            colnames{i} = [ 'Col' num2str(i)];
        end
        xlswrite(data, header, colnames, fullname);
end
```