**Note:** Students are required to copy the program-files in this MS-Word document along with results in the same document.

**EXPERIMENT 5 SIGNAL OPERATIONS**

**DATE:**

(i) Write a Scilab/MATLAB function singular\_fun() which takes input arguments as waveform type (unit\_impulse, unit\_step, unit\_ramp), starting index (-ve integer), ending index (+ve integer), delay(+ve integer) or advance (-ve integer). The function returns the required waveform with sample indices. Write a test bench program to use this function, plot the required waveform, give proper title indicating waveform type, delayed or advanced by number of samples.

(ii) Write a Scilab/MATLAB function signal\_op() which takes variable number of input arguments: signal samples, type of operation (delay, advance, fold, scale), arguments needed for particular signal operation. Write a test bench program to use this function, plot the input and output waveforms and give proper titles.