# How to Use the Software:

* This Software gives the response of a 1-DoF Mass Spring Damper System to a Harmonic Cosine Input.
* The Cosine Input is of the form F0Cos(wt)

Where,

F0 – Input Force Amplitude.

* The Input Parameters required are Start Time, End Time, Time Step, Frequency of Oscillation (in Hz), Input Force, Vehicle Mass, Spring Stiffness and Damping Coefficient.
* After Inputting the above values, you must calculate the System Characteristic Parameters which are displayed in their respective textboxes.
* Once all the System Characteristic Parameters are calculated, the Input Force Wave form and the body displacement in mm are displaced on a line chart in the Input Force and Body Displacement Tab respectively.