## Introduction to Scientific Computing Software HW3 Student ID : < Student ID >

## Write a MATLAB script file to solve following problem.

- 1. Beating (Plot three functions in the same figure)
  - (a)  $\sin(100x) + \sin(50x)$ : (in red solid line with square markers).
  - (b)  $2\cos(5x)$ : (in blue dotted line with "o" markers).
  - (c)  $-2\cos(5x)$ : (in yellow dashed line with "+" markers).

## Features:

- Figure title :  $100\text{Hz} + 90\text{Hz} \Rightarrow f_{beat} = 50\text{Hz}$ .
- Location of the legend : West-South of the figure.
- Range of  $x : [0, 2\pi]$ .