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) $\sin(100x) + \sin(110x)$: (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 : $100\text{Hz} + 110\text{Hz} \Rightarrow f_{beat} = 10\text{Hz}$.
- Location of the legend : West-South of the figure.
- Range of $x : [0, 2\pi]$.