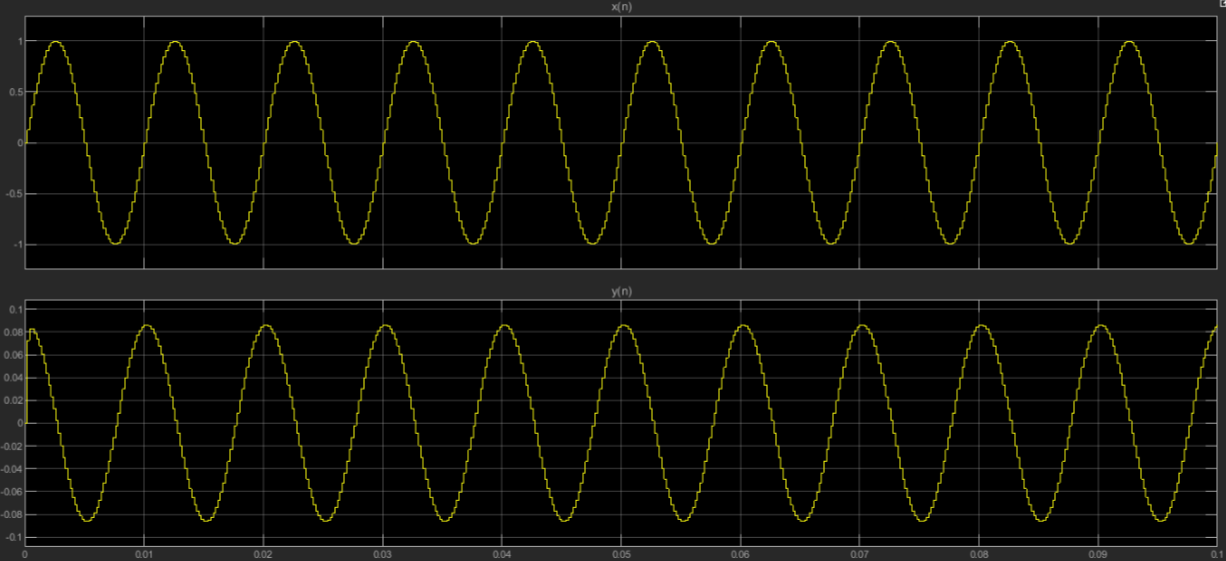
Week 1 – Problem 3

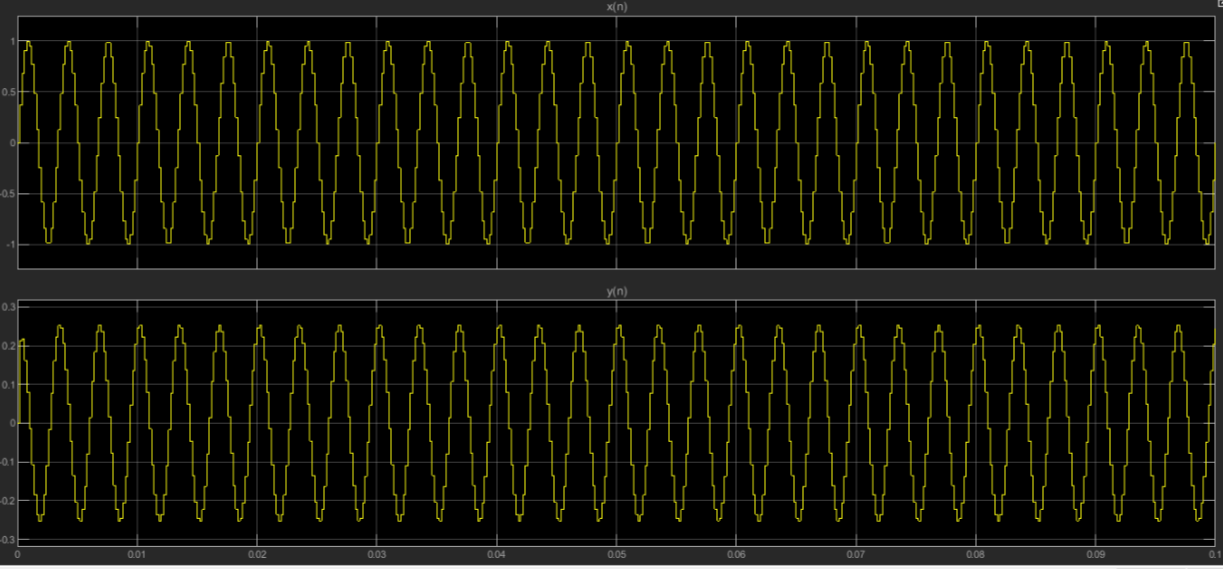
Graph –

The sampling time is set at 1/5000 since the frequency is given as 5000 Hz.

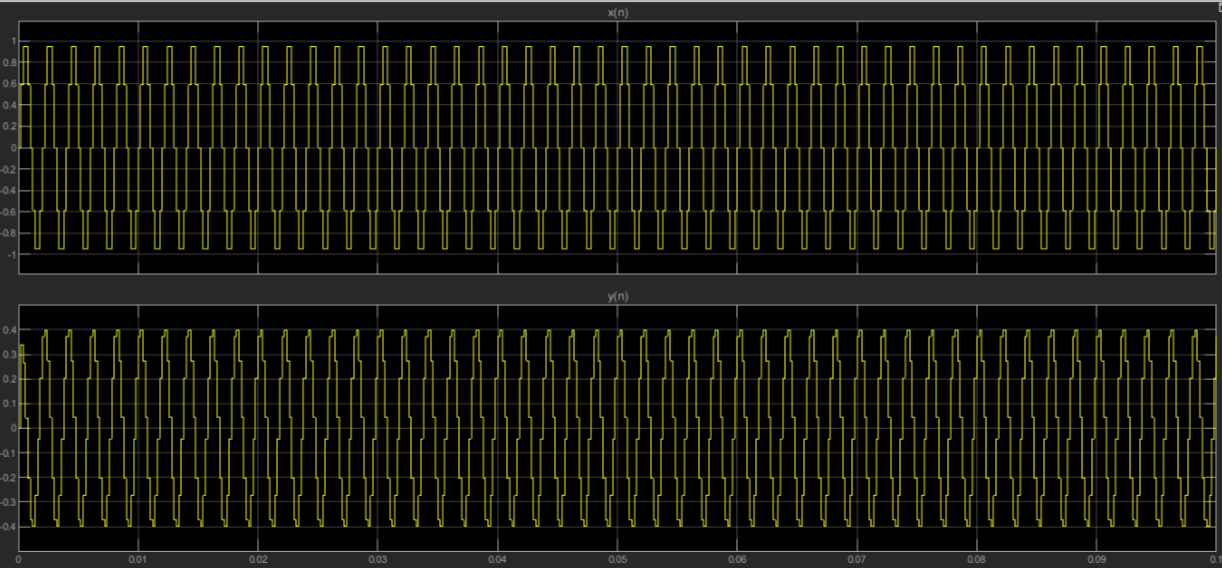
1. Frequency – 100Hz



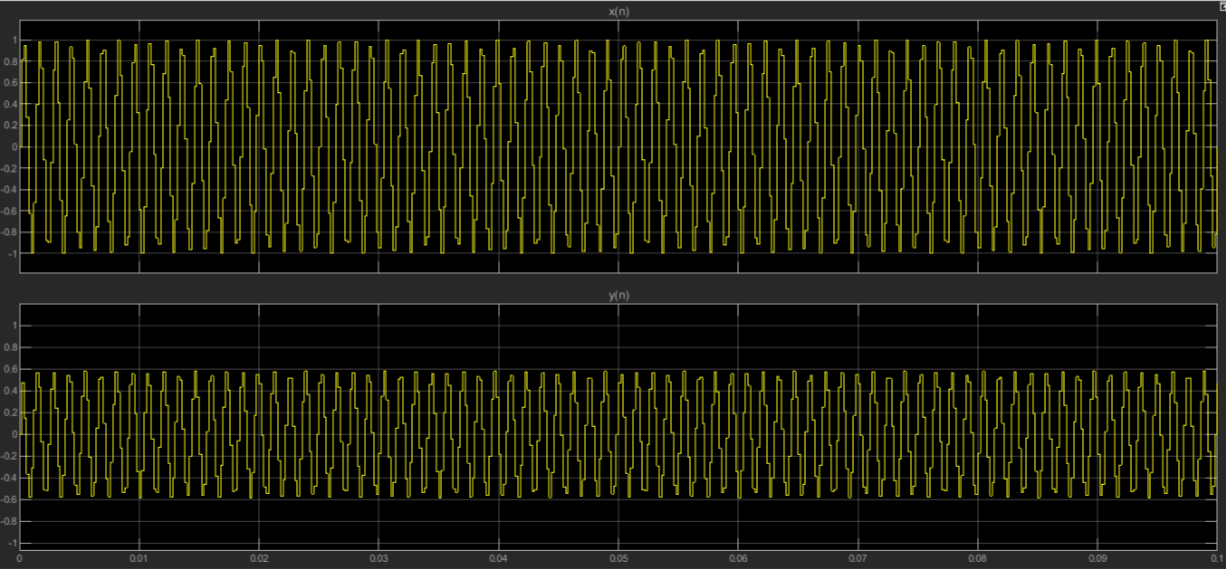
1. Frequency – 300Hz



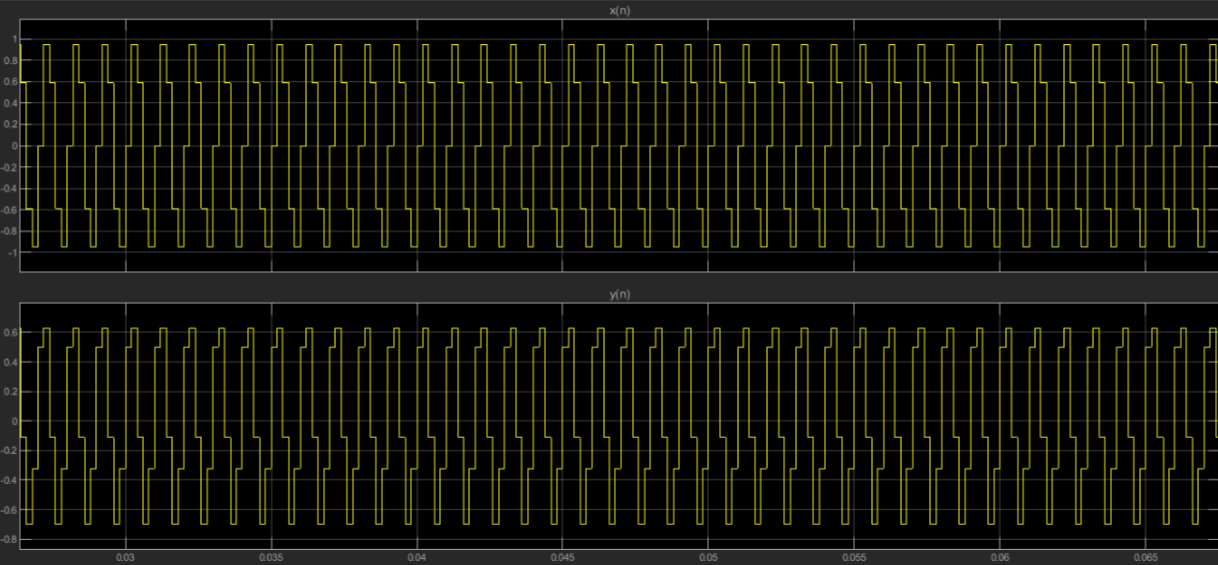
1. Frequency – 500Hz



1. Frequency – 760Hz



1. Frequency – 1000Hz



References :

Ramesh Babu – Discrete Transform Signal Processing