

## Digital Systems and Designs

### Tutorial 3

#### Question 01

By considering Decimation-In-Time (DIT), draw the butterfly line diagram for 8 – point FFT calculation and briefly explain.

#### Question 02

An 8 point sequence is given by  $x(n) = \{2,2,2,2,1,1,1,1\}$ . Compute the 8-point DFT of  $x(n)$  by DIT FFF algorithm.