**Experiment No. : 8**

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**AIM**:

Part A -we will measure the frequency of an external clock signal (Fast Clock available in the Digital Trainer Kit) using the Capture/Compare feature of Timers.

Part B - we will generate two simultaneous PWM waveforms having the same time-period using the Capture/Compare feature of Timers (Tim1).

# OBSERVATIONS –

# PART A –

# By setting Prescaler = 1, ARR = 65000, the value of signalFrequency as measured on STM32 –

# 

# As measured on DSO –

# 

# Part B –

# For our choice, we selected duty cycles of 30 and 70% each for the ARR value of 65000, Output on DSO –

# 

# RESULTS: The objectives of the experiment were met by suitably selecting the values of various variables and making appropriate connections.