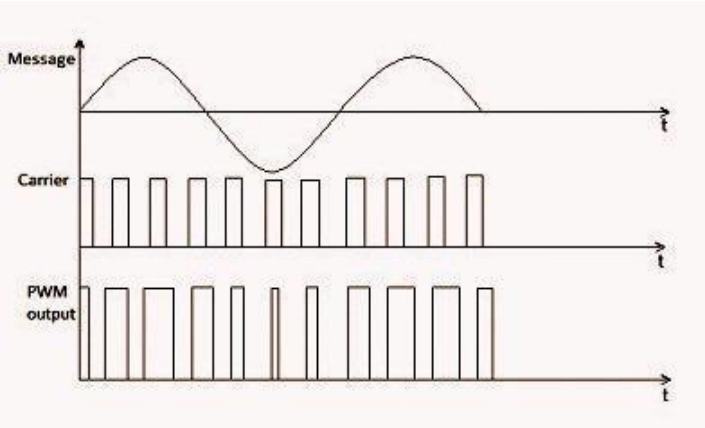
Institute of Engineering & Management
Department of Computer Science & Engineering
Communication Engineering Laboratory for 2nd year 4th semester 2018
Code: CS 491

Date: 5/04/18

ASSIGNMENT- 9

Experiment Name: Pulse Width Modulation (PWM).

Theory: In PWM, the width of the modulated pulses varies in proportion with the amplitude of modulating signal. The amplitude and frequency of the PWM wave remains constant, only width of the pulse changes. That's why information is contained in the width variation.



Pulse width Modulation (PWM)

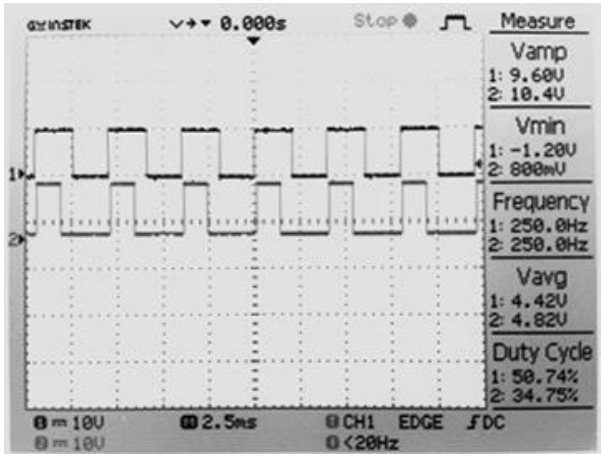
Circuit Diagram:

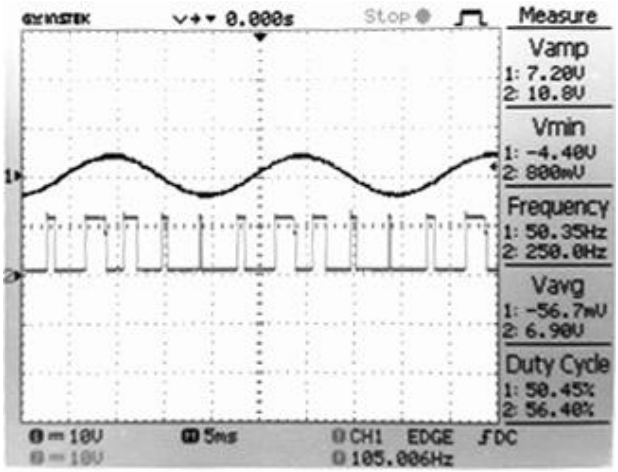
Name: Ranajit Roy, **Sec:** A, **Roll:** 47

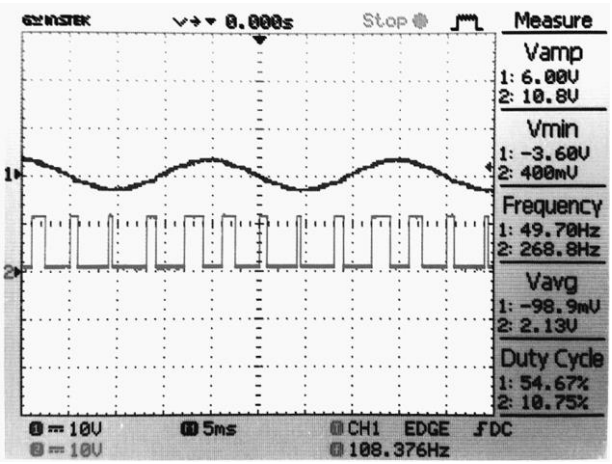
Sample Data:

Signal	Frequency	Amplitude	Offset
Carrier Signal(pulse)	44 Hz	10 Vpp	0V
Modulating Signal(sine)	10 Hz	7 Vpp	6V

Waveform:







Discussion: In this Experiment, we have implemented the pulse width modulation using function generators to produce message and carrier signal.