

# Circuit Simulation Project

<https://esim.fossee.in/circuit-simulation-project>

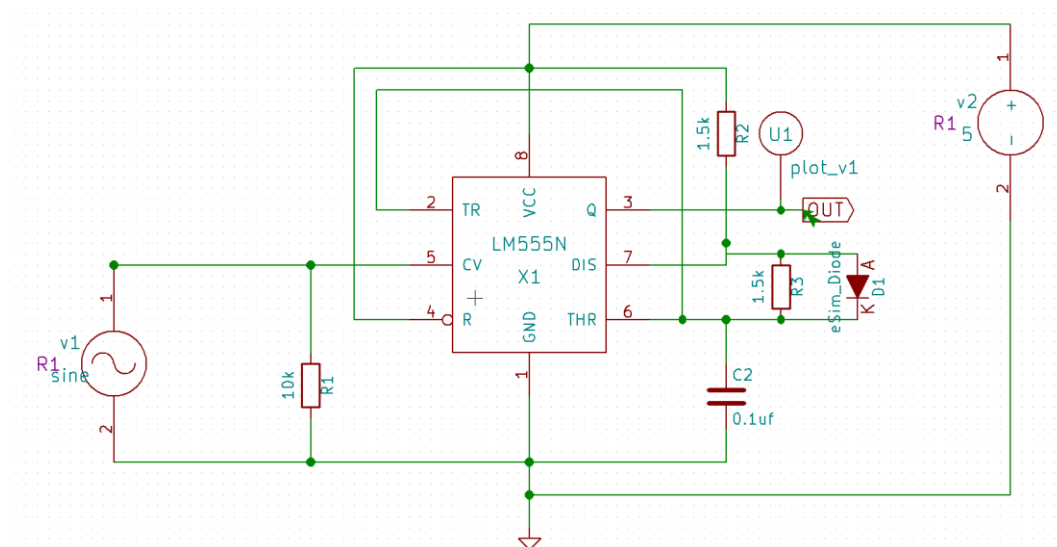
**Name of the participant :** Anish Ramesh Khapare

**Title of the circuit:** Frequency Modulation using IC555

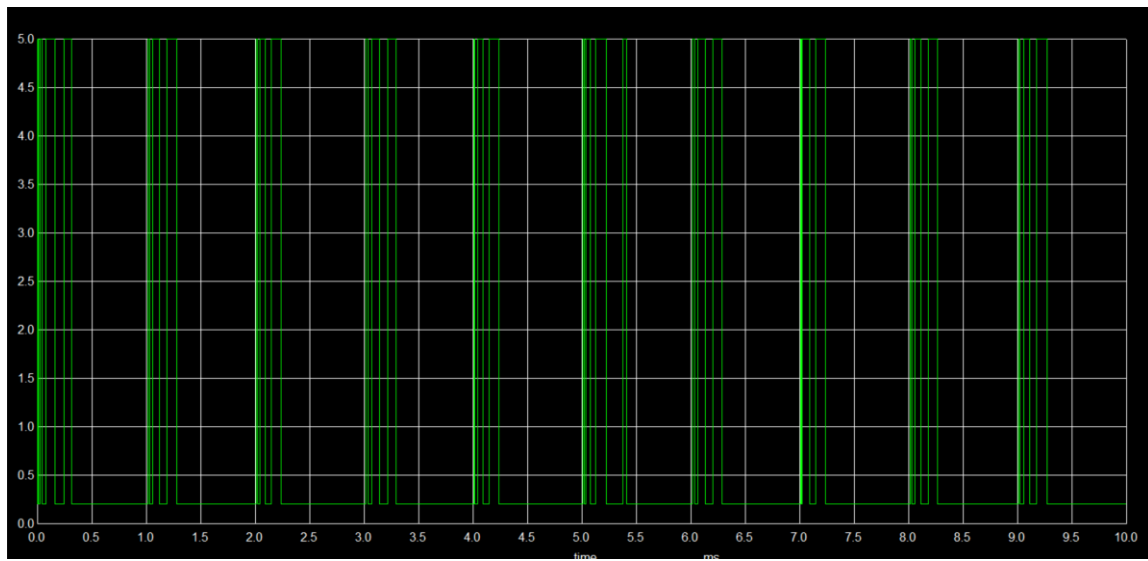
**Theory/Description :** Frequency Modulation or FM is a method of encoding information on one carrier wave by changing the wave carrier frequency. Frequency Modulation technology is used in the fields of computing, telecommunications, and signal processing. In frequency modulation, the frequency of the carrier wave is changed according to the frequency of the modulating signal.

As shown in the circuit below astable mode can be used for generating Frequency Modulated (FM) waves. In astable multivibrator we don't use the 5th (Control Voltage) pin of 555 but here we fed the message signal to this pin which results in the variation of frequency.

**Circuit Diagram(s) :**



**Results (Input, Output waveforms and/or Multimeter readings) :**



**Source/Reference(s) :**

<https://electrosome.com/fm-generation-using-555-timer/>