CSE350, LAB05

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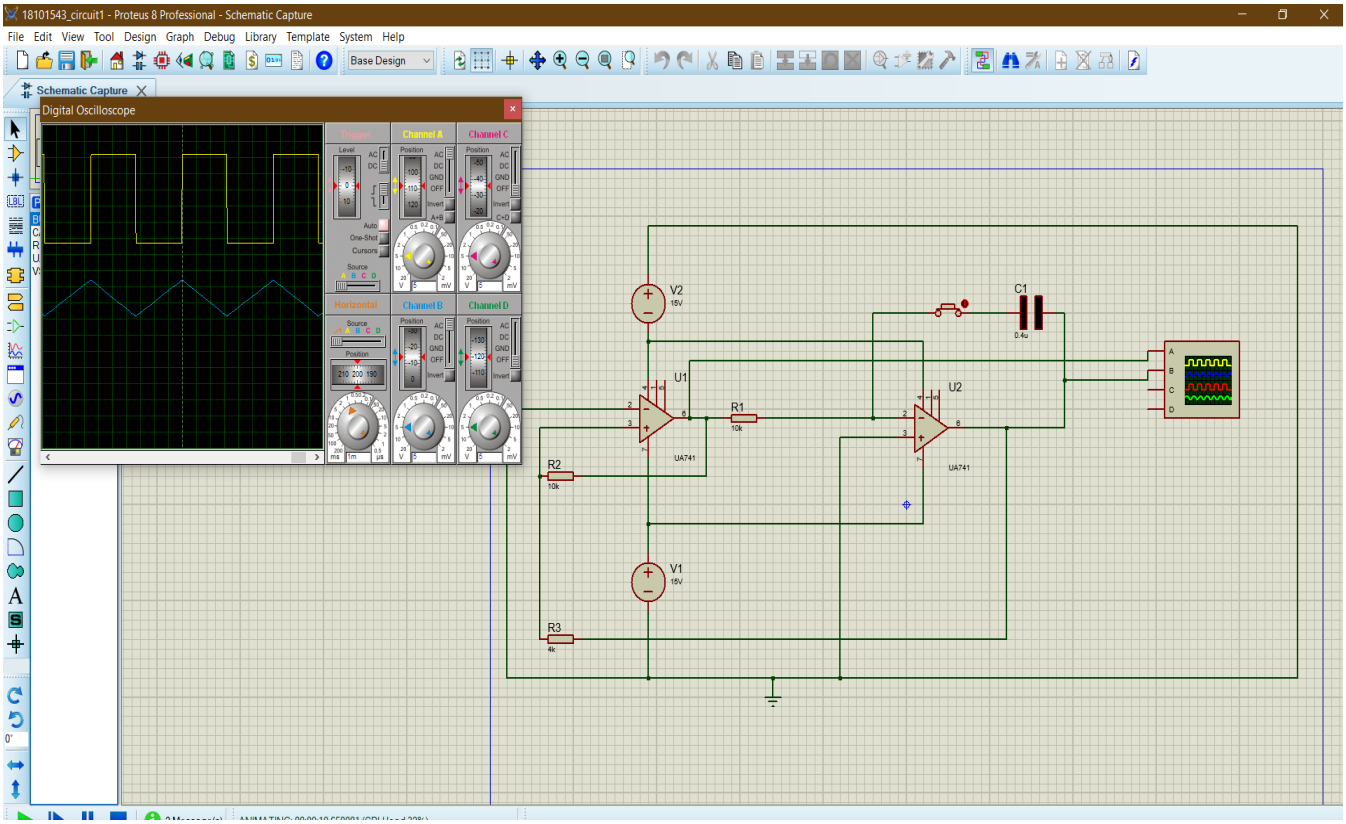
Section: 04.



Theoretical Frequency	Experimental Time Period, T (ms)	Experimental Frequency, F(Hz)
f= (1/4*R_1*C)*(R_2/R_3) =49.735	6.5	153.84

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Ans. to the Ques. no. 3-01

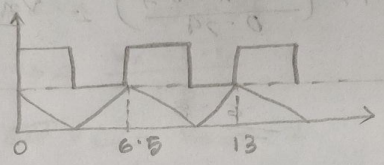

Fig: output wave shapes.

Ans. to the Ques. no. 3-02

Current flows through R1 resistor when I_{e1} is in saturation mode. The output of I_{e2} decreases and becomes zero as the capacitor stores charge. When the value of I_{e2} falls below 0, the I_{e1} will become negative. Then current will flow towards I_{e1} through R1. The output of I_{e2} stops rising until it reaches in saturation mode. Again the output of I_{e2} decling after reaching in saturation mode. As a result of this, we see the triangular wave form.

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Ans - to the Que. no. 8-03

The inductor should not put effect on the experiment. So, the calculation should be same.