

## A

## Project Report on

"Melodic Beats: Creating a Piano Circuit with IC 555 Timer"

**Subject**: Analog Circuits

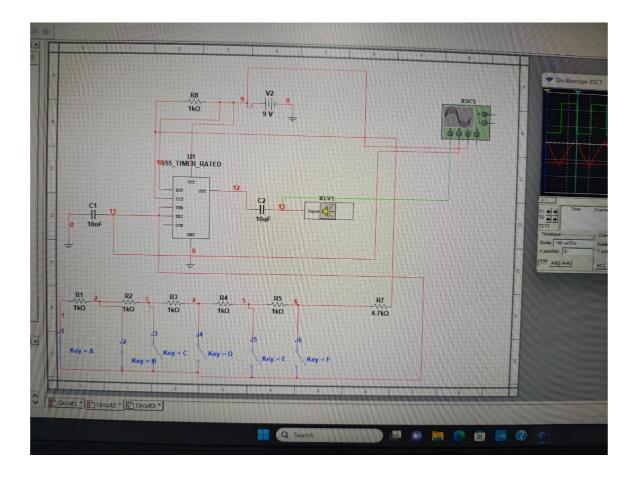
Submitted to: Boopalan G

Slot :L47+L48,L33+L34

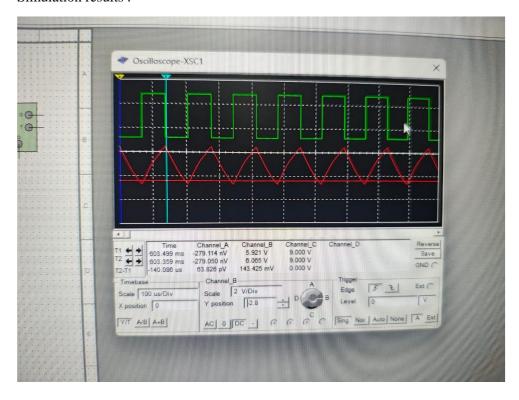
## BY:

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#### Schematic (Multisim):



#### Simulation results:



#### Result:

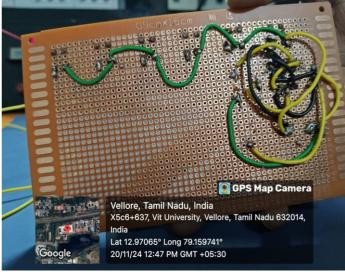
Changing the resistor value in series with the capacitor changed the frequency of the circuit. Increasing the resistance produce a lower sound, while decreasing the resistance made the LED blink faster or produced a higher sound.

#### Photos:



# **FABRICATION:**





#### References:

- 1. <a href="https://howtomechatronics.com/how-it-works/555-timer-ic-working-principle-block-diagram-circuit-schematics/">https://howtomechatronics.com/how-it-works/555-timer-ic-working-principle-block-diagram-circuit-schematics/</a>
- 2. <a href="https://howtomechatronics.com/how-it-works/555-timer-ic-working-principle-block-diagram-circuit-schematics/">https://howtomechatronics.com/how-it-works/555-timer-ic-working-principle-block-diagram-circuit-schematics/</a>
- 3. https://www.circuitbasics.com/555-timer-basics-astable-mode/