# PROJECT REPORT MINI SIGNAL GENERATOR

## **Team Members:**

IMT2020511 - Sirigiri Sai Keerthan

IMT2020513 - Vishal Cheeti

IMT2020533 – Dheeraj Sairam

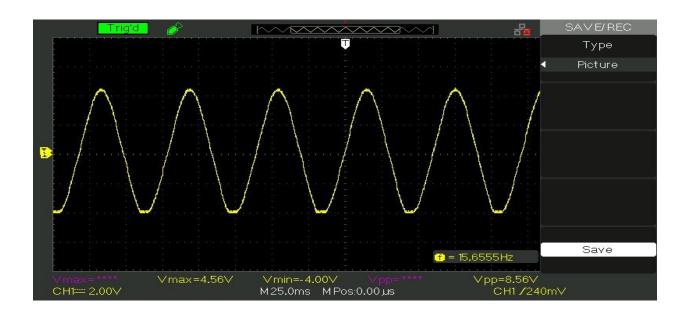
IMT2020540 – Sasank Karamsetty

IMT2020541 - Vamsidhar Reddy

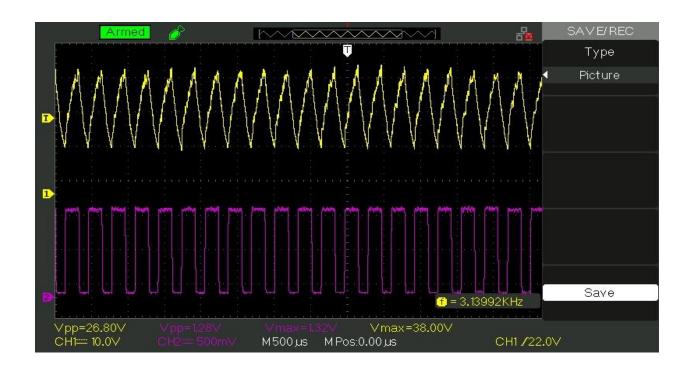
IMT2020555 – Ayyappa Koppuravuri

- We generated different signals using 555 timer chips
- We built a prototype which gives square, triangle, sine and cosine signals.
- We used potentiometers to adjust the amplitude of the signals.
- Later we used muxes to showcase our signals.

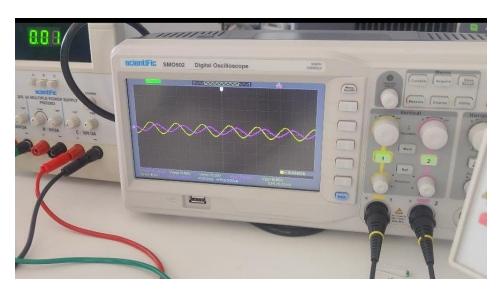
#### Sine Wave:



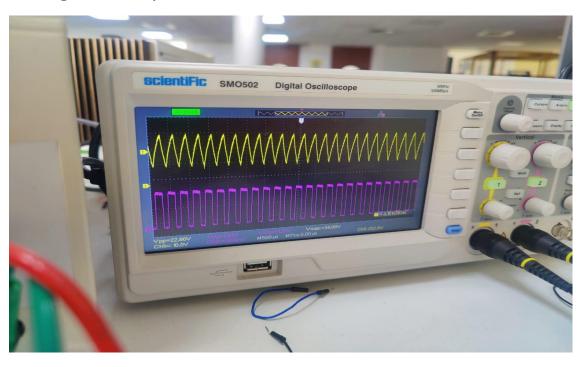
## Triangle and Square Waves:

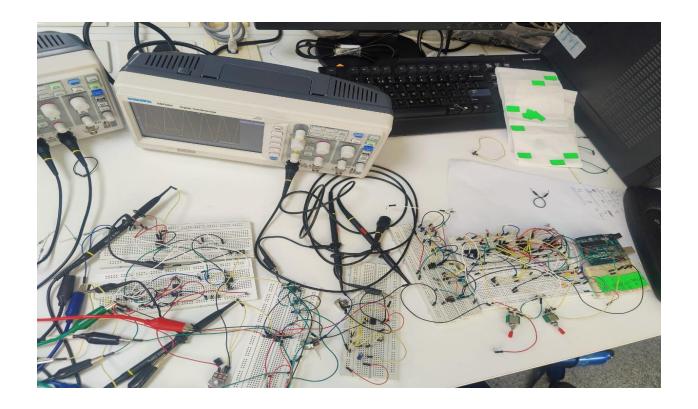


#### Sine and Cosine waves:



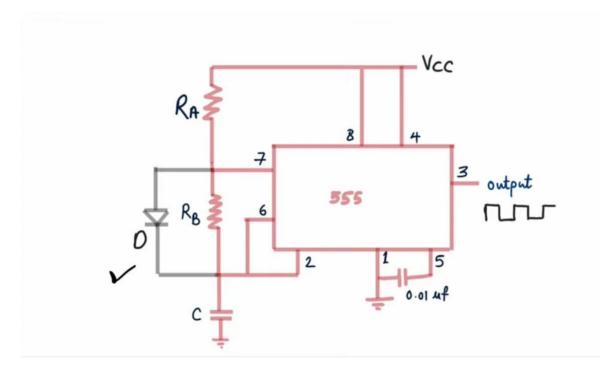
## Triangle and square waves:



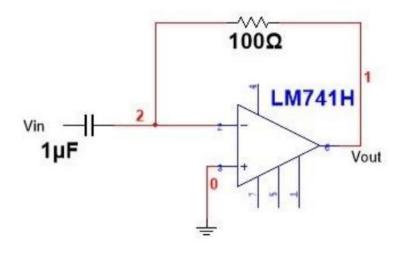


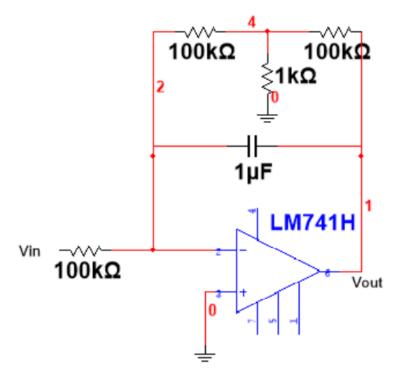
These are the circuits we built :-

## Square wave :



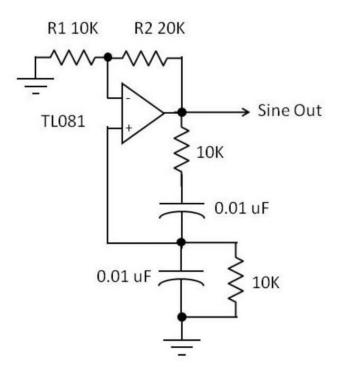
### Differentiator and Integrator circuits used:



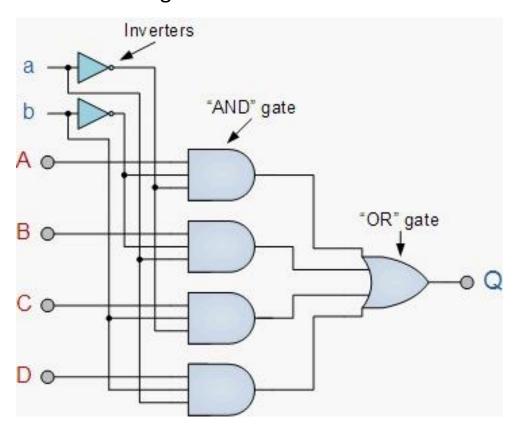


- We integrated square wave to get triangle.
- And we differentiated sine to get cosine wave.

## Sine Circuit diagram:



## Mux circuit diagram:



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nRzw2TsVdqehItAI?		<u> </u>		