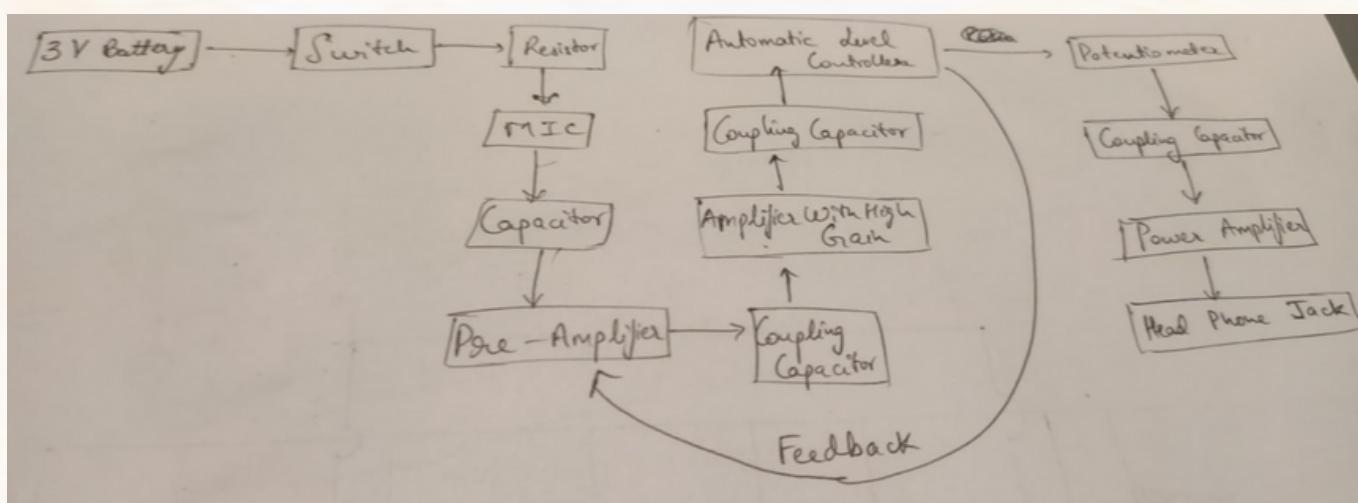
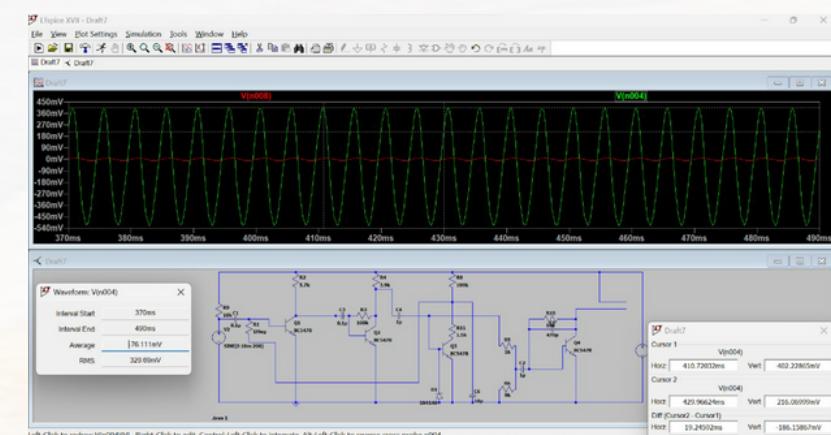
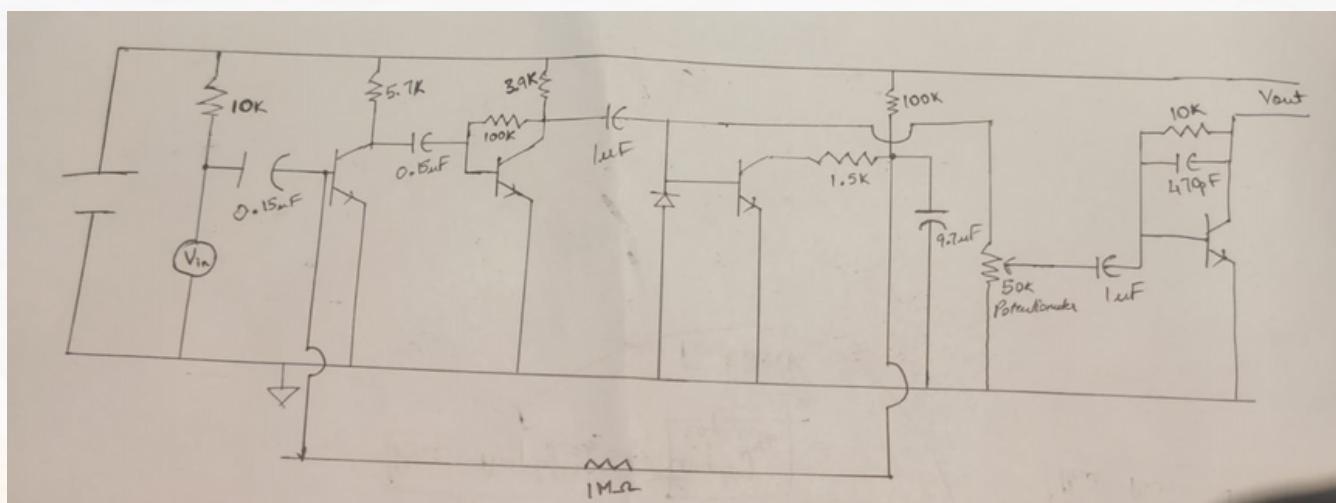
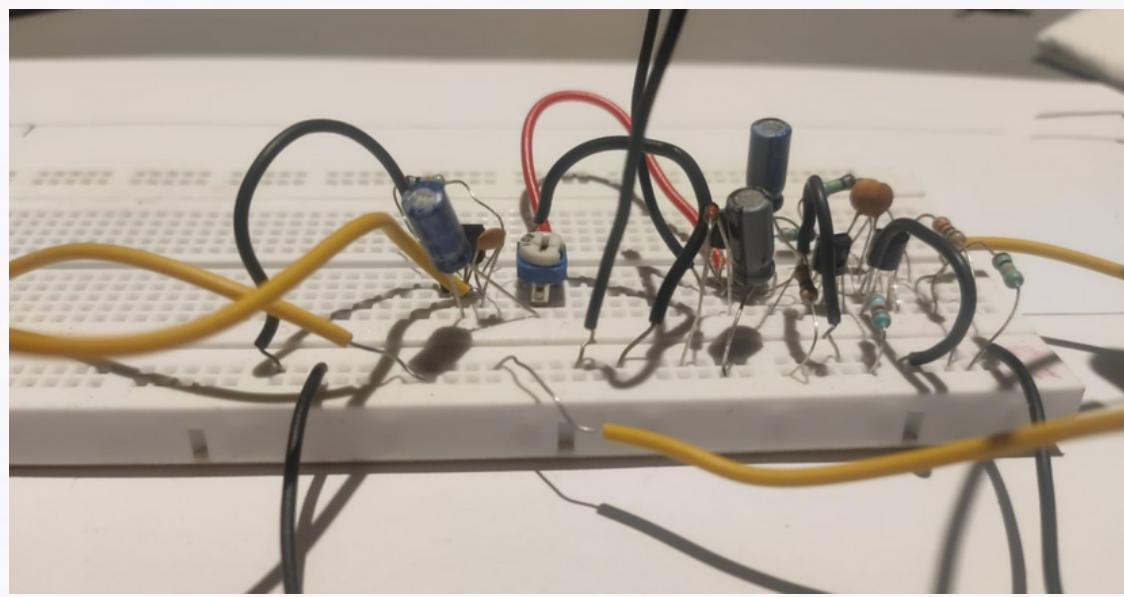
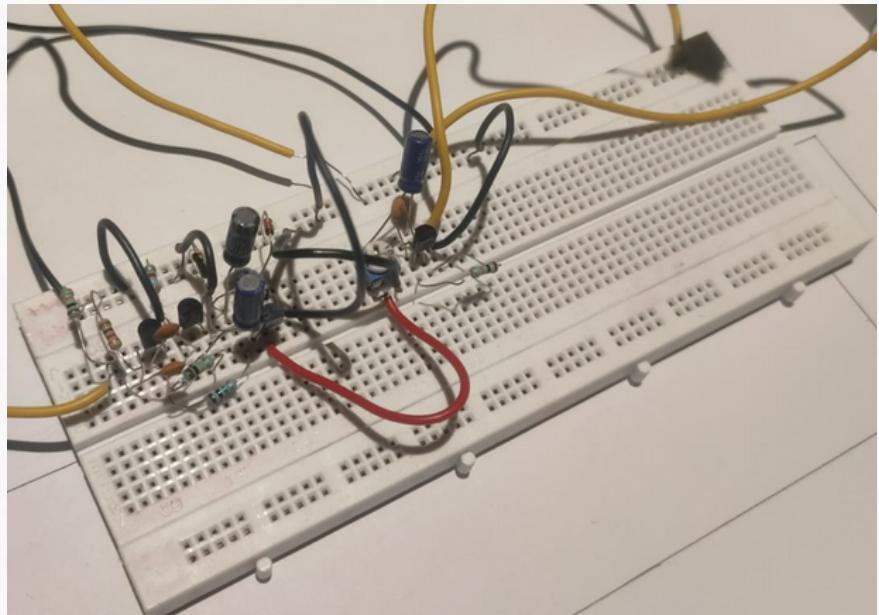


Table 18:Project A

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Animesh Pareek 2021131



Red- input, Green-Output

Applications

1. Various military applications as a Spy Device
2. Hearing Aid
3. It can be used to pick up very faint noises, hence useful in locating survivors in a collapsed building.

Features

1. Feedback
2. Automatic Volume Control
3. Adjustable Volume
4. Reduced Noise

Brief Description

The 10k resistor is attached before the mic after which is a capacitor to eliminate Dc current, there are coupling capacitors between every stage of the circuit, first the pre- amp, then the main amplifier with larger gain is connected, the main amplifier has collector and base connected. The 3rd stage BJT, has a diode which keeps voltage stable, the capacitor of 9.7microF helps regulate frequency, the feedback to the pre amplifier helps in automatic amplification control.

References

- <https://makingcircuits.com/blog/simple-microphone-mic-amplifier-circuits-using-transistors/>
- <https://www.eleccircuit.com/the-cheap-small-hearing-aids-project/>
- <https://www.wellpcb.com/noise-filter-circuit.html>