

equipment used:

—> LM 386 IC

—> Bread board

—> 10MF capacitor (x 3)

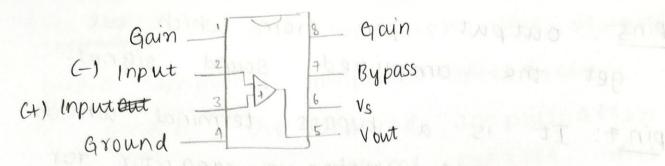
—> 220MF, 4.7mF, 100MF, 104PF

—> 10-2 resistor

—> B-10K potentiometer

—> Audio jack

—> ROHS 8-2 speaker



Functions of various components:

- 1) LM 386: It is a low voltage audio amplifier used in music devices like radio, quitar etc. -> It's gain is 20-200.

 - -> It has a wide range of supply voltage range 4-12V. 19t 200948 et betsemme
- > Pin 1,8: Gain control pins. The default gain 20 can be increased to 200 by using appropriate capacitors. We used louf to get the highest high trequency gouin [200].
- pin 2,3: Input pins for sound signals. Negative input terminal is connected to ground. Sound signal is fed to positive input terminal by a potentiometer which acts as volume control knob.
- Pin4,6: power supply pins. Pin 6 is connected to revci and pin 4 to control took by adjusting

- pins: output pin from which we get the amplified sound signal
- -> pin7: It is a bypass terminal which is grounded using a capacitor for stability.
- of input signal allowing only AC component of to be fed further.
- of Ca: connected to Bypass terminal of IC
 for stability of the circuit.
- Network' used to remove sudden
 high frequency oscillations I noise.
- cg: removes DC component of output signed allowing only Ac component to be fed to the speaker.
- CE: used to adjust gain
- of the Input per voltage
- -) potentiometer: acts as a volume control knob by adjusting the resistance.

conclusion: In conclusion, the designed audio amplifies amplifies effectively. It acheives the desired amplification with adjustable volume control. This project demonstrates a basic yet effective approach of audio amplification suitable for various music devices