Mansi Uniyal 19EE10039 Homework3 PMM audio: Chuse Width Modulation? It is used for simulating The advount of power. depends on duty cycle of signal, to vary the output while maintaining a constant foreg. It generates audio signals with a speaker, while freq. is varned to generate various Varrying duty eyele creates useful trim bral nibrations. Some syntherizers have duty cycle trimmers for square wave outputs. 50% point (square ware) is distinctive as even no. harmonic disappears at 50%. Pulse mares 3507, 257, 12.57. duty natio 3 makes up soundtracke of classic video games. 555 Timer PWM Andio Amplifier is one of its applications

There is a stable multivibrator. The Woignitons 555 timer 1C handler audio signals in 1ts own pulse midth modulation way It works in a stable mode. Switching freq can be vernied from 65 2 188 KHz. Solection of PWM freq depends on amplitude of input signal and load impedance. The carrier freak Bulse width vernies as a funca of amplitude of input andio signal. Feedback capacitos C2 ensures Dutput LCfilter is common approach for reasonable rejection of corner freg. Speaker nespond to any DC modulated with andio signal. Input impedance matering fromsformer match headphones output to input of the amp. 852, IN speaker is load. For convention amplifier with higher efficiency & effortless bass.

100% ER2 SIOK 1000 = CI GROPF THIT