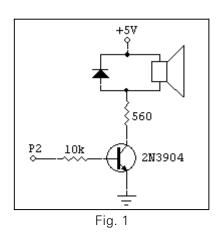
## Lab C Port 2, Driving Loads, Sound

1. Assemble the circuit shown in Fig. 1:



2. Create, assemble, make appropriate comments and save the following program:

	ORG AJMP	00H Main	;Start program here ;jump to main body
Main:	ORG NOP	100H	;start main body here ;
Pitch:	NOP MOV MOV MOV	A,#0FFH P2,A R3,#0FFH	
High1:	NOP DJNZ	R3,High1	· · ·
Low1:	MOV MOV MOV NOP	A,#00H P2,A R3,0FFH	
	DJNZ SJMP END	R3,Low1 Pitch	;

3. Execute the program (refer to Labs A and B for instructions.)

4. Measure the frequency that is produced by this program. (Hint: Place the frequency counter across the diode.)

5. Modify the program so that a frequency of 1kHz is produced. Measure the frequency once again.

6. Write a report and attach the \*.lst file. Comment on the operation of the transistor and the diode.