Chapter 8

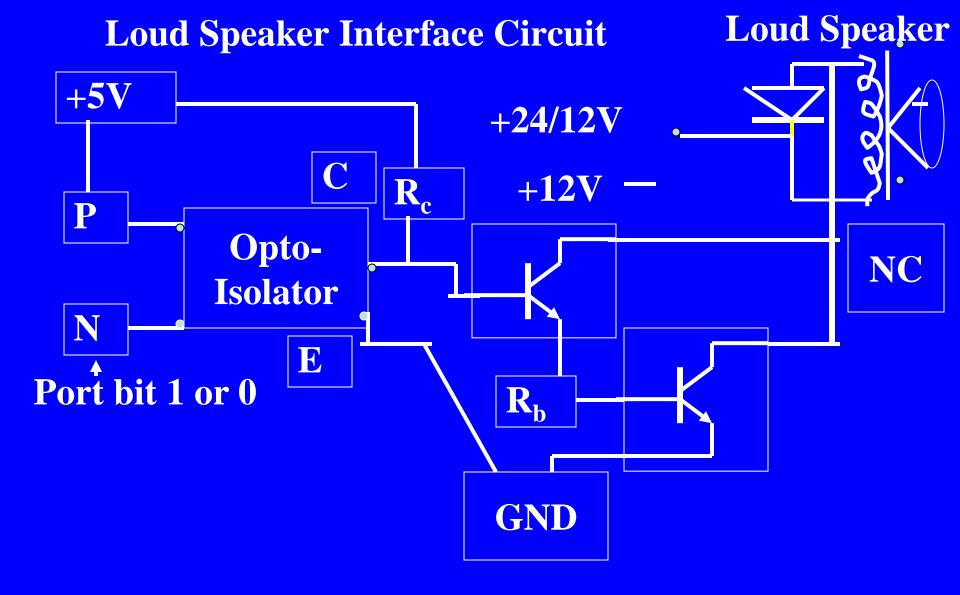
Digital and Analog Interfacing Methods

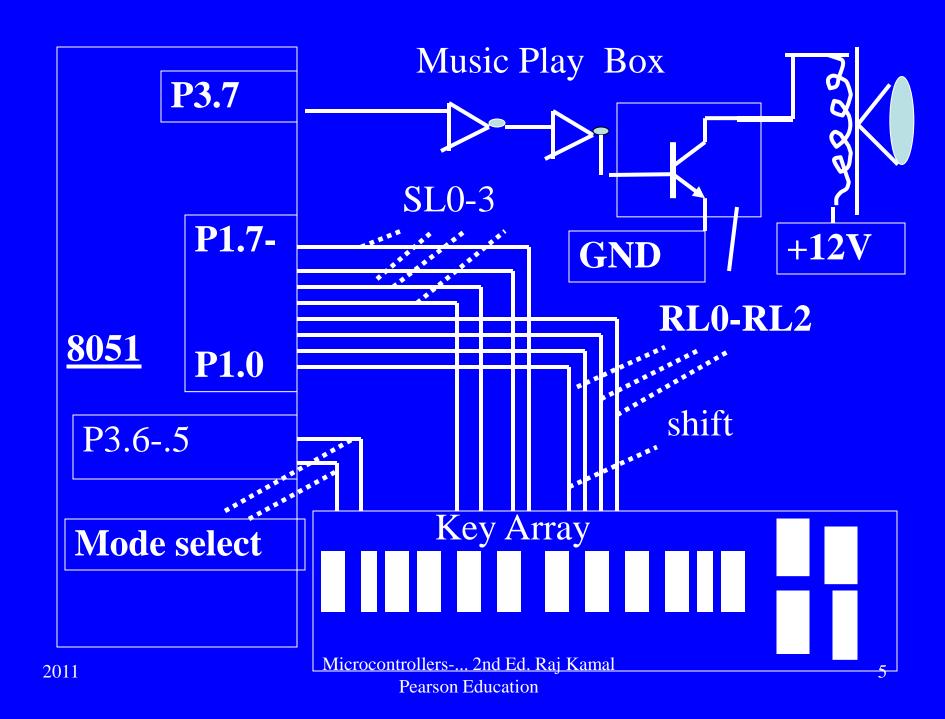
Lesson 9 Part d

Loud Speaker and Music Play box Interfaces

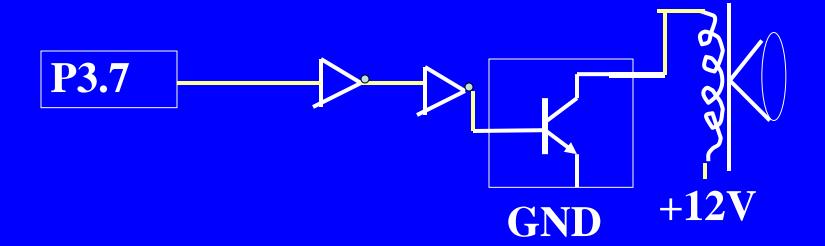
Coil Interface applications examples

- (i) a magnetic field generating solenoid coil, for example in an LVDT,
- (ii) a relay,
- (iii) a loudspeaker and
- (iv) a coil of stepper motor





Low Power Speaker



Music Play Box two interfaces

- one for the keypad and
- other for the speaker

Keypad Interface

Software for the keypad can be designed to work in various modes

Keypad Interface Modes

- •Mode 1 musician mode
- •Mode 2 stored music playing mode
- •Mode 3 to define the note durations and generate the tunes for the different type of the musical instruments using the same interface

Speaker Interface

Loudspeaker Coil Interface

Summary

We learnt

Music Play Box

- Mode select keys and play keys
- Speaker Interface
- Key-array Interface

End of Lesson 9 Part d

Loud Speaker and Music Play box Interfaces