

Assignment 3

ADC & POWER OUTPUT

Read the ADC and show its value using 7 segment led displays, if the analog value read is larger than a preset value generate an output to switch a 110 VAC device.

An example of this could be turning off/on a 110 VAC bulb once you reach certain analog value (threshold).

YOU NEED TO USE A OPTO COUPLING AND A POWER DEVICE SOLUTION COMBINATION (i.e. SCR, TRIAC, etc.)

You need to show the results in more than one 7 segment display.

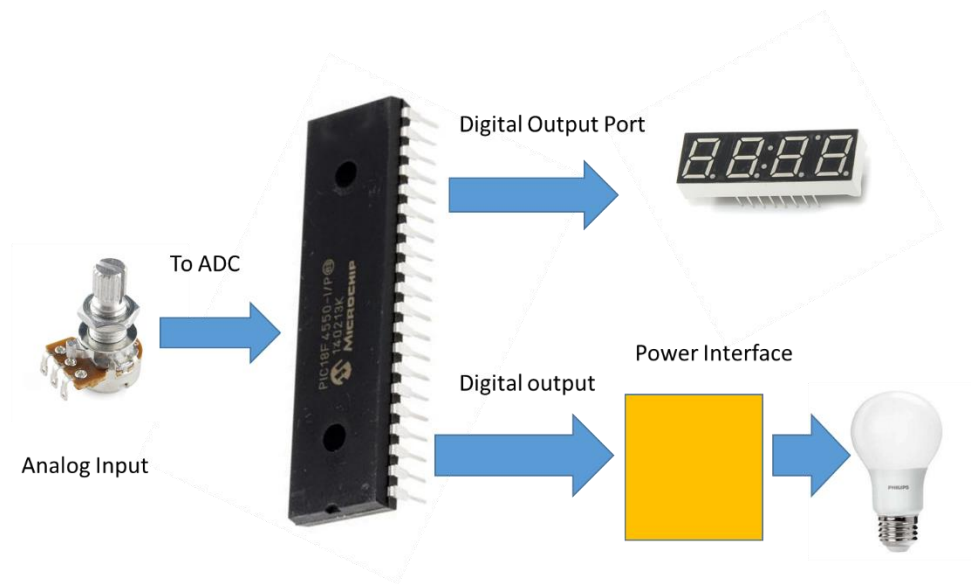
The assignment must include:

A pdf file describing:

- Problem description
- Pseudocode
- Assembly code (Comments please)
- Wiring diagram
- System's Picture (use your smartphone)

Bring it to class or office hours,

Assignments won't be accepted after due date.



Block Diagram