

## Course Content

Introduction to Embedded System Design	Week 1
Review of C and C as implemented in Assembly Language	Week 2
Architecture: Review of ARM Cortex 0 MCU	Week 3
Software Design Basics in Embedded Systems	Week 4
State Machines and Interrupts	Week 5
GPIO and ADC and DAC	Week 6,7
Communication and Networking	Week 8,9
Timer Peripherals	Week 10
Operating Systems and Scheduling	Week 10,11
Review of Systems control	Week 12
Real time Systems	Week 13
Introduction to Internet of Things	Week 14

# Introduction

Tuesday, September 19, 2017

1:29 PM

Green house ~ گلخانه

Inputs : Temperature دما

Humidity رطوبت

light نور

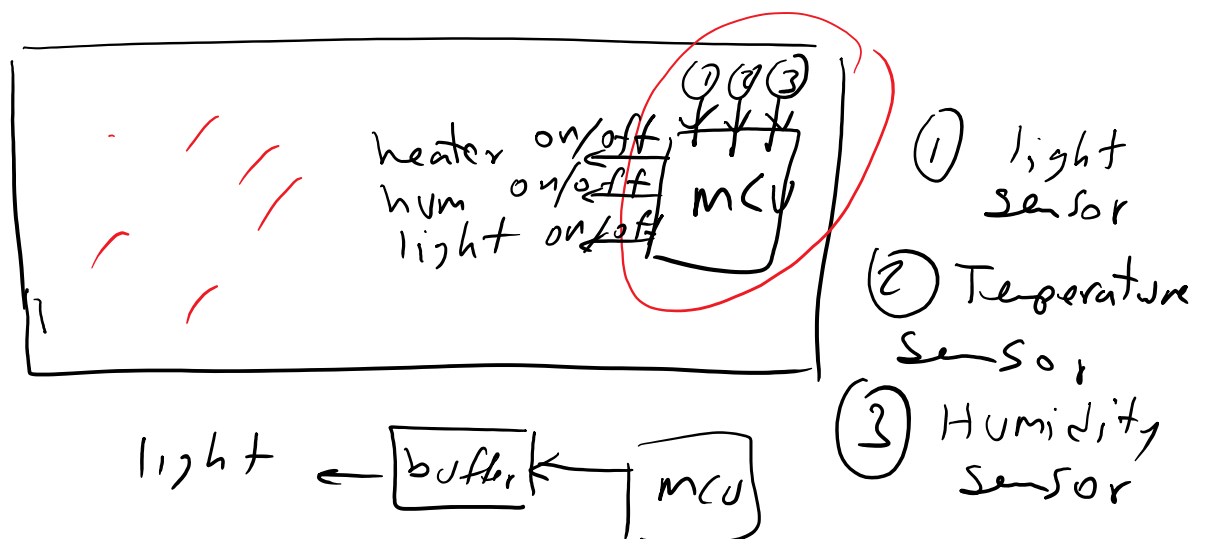
output: Heater گرما

Humidifier ...

light switch / کلید روشنایی

Function: Display within constraints

داخل محدود تعریف شده

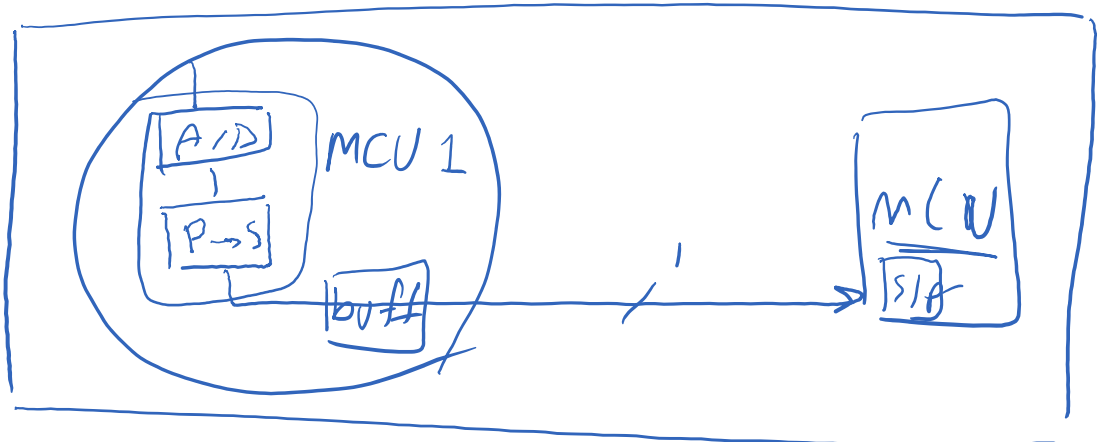
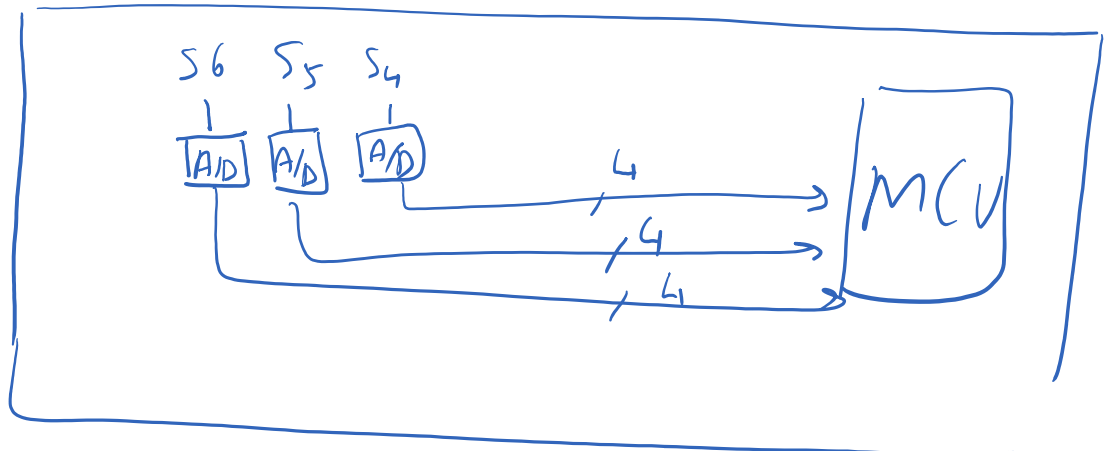
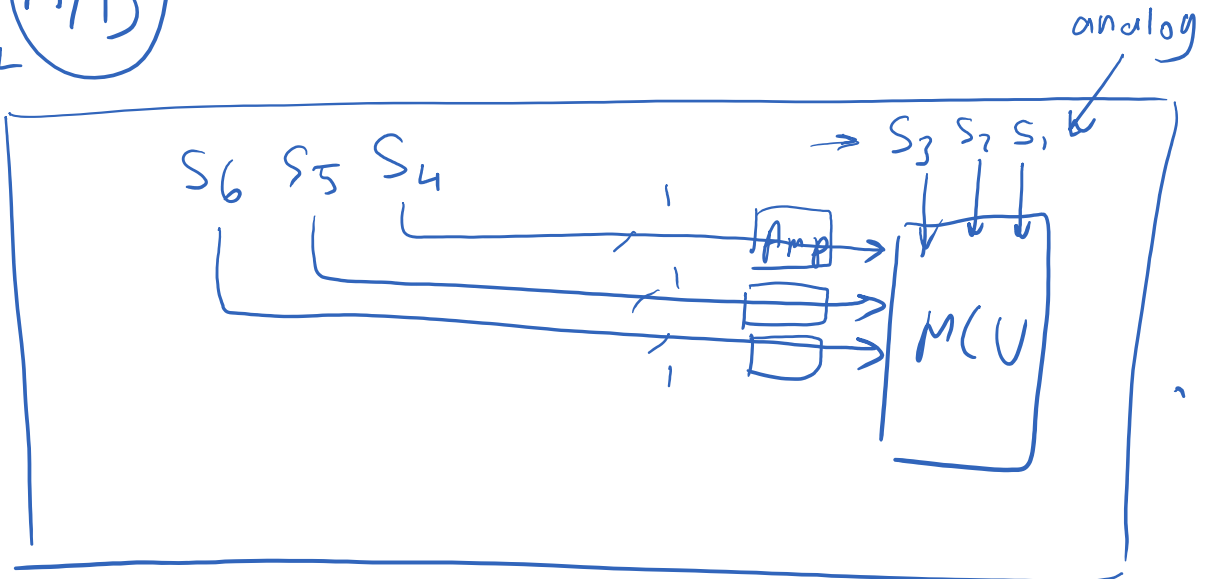


# Introduction

Thursday, September 21, 2017

10:14 PM

MCU → A/D  
digital input  
analog input



Communication protocols

coding