Midterm Outline

1. Scheduling ****
    a. TimerISR()
    b. Time overrun
    c. Worst case execution time (10.3)
    d. Utilization (10.2)
    e. Usage diagrams (10.4)
    f. Prescaler
    g. Priority based scheduling
    h. Deadline based scheduling
    i. Preemptive scheduler
2. Microcontrollers & circuits
    a. Power consumption given frequency and voltage
    b. Supercap, capacitors, resistors and transistors
    c. ADC
    d. DAC
    e. Comparator
    f. External(Shift) Registers
    g. LED matrix
    h. Joystick
    i. UART & USART
    j. SPI
3. Know how to code
    a. Bit-wise operations
    b. Ability to identify functionality of code
4. State machine design
5. How to debug
6. VIdeos