ELT 220; Lab 8

Using Ports and Conditional Jump Exercise

Complete the following tasks. Once you have gotten a task to work have its proper operation verified by your instructor.

Be sure to use Comments. And use template. Before you start, write out list of tasks to do.

1. Write a program that will sense the condition of each switch. If the switch is pressed then turn on the corresponding LED. If the switch is not pressed turn the corresponding LED should be off.

2. Write a program that will sense the condition of Switch 7. If the switch is pressed then turn on LEDs 0, 2,4 and 6. If the switch is not pressed turn on LEDs 1, 3, 5 and 7.

3. Write a program that will increment the value in the accumulator by 3 starting at 0 and going up to 30h. If the number in the accumulator is odd light LED 0-3 if the number in the accumulator is even light LED 4-7.

Report Format

1. Cover page
2. Program 1
   1. lst file for the program
   2. Explanation of how the program works.   
      (Note: do not go line by line but rather explain your logic behind you got the program to work)
3. Program 2
   1. lst file for the program
   2. Explanation of how the program works.
4. Program 3
   1. lst file for the program
   2. Explanation of how the program works.