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Week 3 Homework

Looping structures

1) Write a program and flowchart that will increment from the ASCII little a to the ASCII little z and then

stop. Use a for loop and HEX numbers.



2) Same program as number 1 but this time replace the for loop and use a do while loop instead. No

flowchart.

3) Using a switch statement to check the state of switch 0, if switch 0 is low you want to increment on

the lights. If it is high then you want to decrement on the lights. Also send the count to the PC COM

port.

4) What is a sentinel?

* A sentinel is a conditional value that a loop statement will check every cycle. This variable is usually used to trigger a loop or to end one.

5) What areas can a break statement be used and what happens if you use it?

* Break statements can be used in case statements and loops and when called will jump out of the current statement and continue to the next section of the code.

6) Why don’t you want to use a lot of goto statements?

* Its Bad form, causes excessive overhead, and royally confuses anyone who looks at your code down the road

7) Write a program that will use a for loop and send out to the PC COM screen each character of your

first name. Place your first name in an array. Use array subscripts. Use a delay so you can see it.