Lab 5 - Spelling With Loops

1. Spell CMPT130

Write a program named lab5.cpp which spells out **either your name** (must be at least 6 characters or more) **or CMPT130** in big letters, similar to what is shown in the output on the right.

- Print one character at a time using cout statements inside loops.
 - To make a big A, print 'A' characters; big B with 'B's, etc.
- Use many loops!
 - Use at least 3 while loops.
 - Use at least 2 nested loops.
 - ► I recommend lots of nested loops for this lab to get practice with them. Try all sorts of things: count up, count down, ...
 - Use if, if-else, and if-else if-else statements:
 - ▶ Practice with || and && conditions in loops and if's.
 - Try using % and ==.
- Make each big-letter about 5 characters wide, and 4 characters high. Used named constants!
- Have your output look something like the sample to the right. No need to match it exactly; use your creativity!

2. Functions

- ◆ Move the code for creating each letter in part 1 into its own function.
 - For example, have a function such as drawC() to draw the big C.

3. Challenge (optional; harder!)

Change your code to write the big-letters horizontally (vs vertically) Hints:

- Use one for loop to iterate through the rows.
- ♦ Inside the for loop, call functions to draw each letter, passing in the row.
- Make sure you insert a space or two between each big character.

Extra-extra challenge (optional): Have the user type in a word and print it out in big letters! You may want to start only supporting a few letters.

4. Lab credit

- Complete above steps in one file. OK to skip any "optional" sections.
- Comment your code correctly: comment for every ~2-5 lines of code.
- Submit your code to CourSys.

cccccc
MMMMMMM M
PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
TTTTTTT T T T T
111 1 1 1
1111111
333333
3333333
333333
0000000 0 0 0 0 0 0 0 0