**Lab Exercise 8**

**Focus**

1. Strings and string manipulation

**Part A: Building upon an Existing Solution**

For this portion of the lab, **you must reuse the program you wrote in Lab4A (Lab FOUR part A**) . This means ALL requirements for Lab 4 are also required for this lab, so if you had errors in Lab4 you must correct them in order to complete this assignment. Redesign the solution in the following manner.

1. Ask the user for their name and their email addresses before you display the results of the conversions.
2. When the user enters their email address search the string for the @ symbol. If the symbol is not found, ask the user to re-enter their email address till they get it right.
3. When you display the conversion output to the user, you must include the user’s name in the output.

Save the program as firstname\_lastname\_Lab8a.py where you will replace firstname and lastname with your actual first and last name.

**Part B: Write Something New!**

Write a complete and syntactically correct Python program to solve the following problem:

1. Input a date in numeric format from the user e.g. mm/dd/yy.
2. Examine the month entered by the user, if it is larger than 12 or smaller than 1, issue an error message and ask for input again.
3. Perform similar validation tests for the date and year. Year must be 2015. (Any other year is invalid). In addition, the year must only be two digits long..
4. Once all input has been validated, output the string in long date format. Thus a string that was input as 06/01/15, will be output as June 1, 2015..

Use the IDLE programming environment.

Please save your file as firstname\_lastname\_Lab8b.py where you will replace firstname and lstname with your actual first name and lst name. Remember to use the extension .py.

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Run and test your program for all conditions. Once you are sure it works you will turn in the items listed in the next section.

**Turn In**

All labs will be graded in Blackboard. Once you are done with the lab turn it in to the Lab 8 link.

For this lab you will turn into Blackboard the following THREE items:

1. The Python *code file* you saved in part A

2. The Python code file you saved in part B