**UNIT 2 PROGRAMMING ASSIGNMENT**

Computer Science, University of the People

CS 1101: UNIT 2 Programming Assignment

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In this programming assignment we are asked to create a new file called tryme4.py that runs in the script mode. In that file we are to add two functions that had been provided to us named “three\_lines” and “new\_line” where “new\_line” prints a dot at the beginning of the line for visual counting of new, “blank” lines easier. Then we are to write a function named “nine\_lines” that uses the function “three\_lines” to print nine lines and a function named “clear\_screen”-mine is defined using a combination of “nine\_lines” twice, “three\_lines”twice and one “new\_line” to print twenty-five lines.

The last line of my program calls “nine\_lines” first and then the function “clear\_screen”, which is defined to print a string that should be equated to a placeholder indicating where they are each beginning, but “nine\_lines” is not defined to print a string, so a print function has been added to print the placeholder string. That is to say, that if anyone would want to use my code to create more functions that print more lines using “clear\_screen” as part of its definition, they would first have to delete the “print("Printing 25 lines")” function nested inside it, for uninterrupted, clear visual counting of new lines.

Nesting the print function inside “clear\_screen” got me interested in finding ways that python can block certain functions nested inside functions before they print. I am researching that on my own now.

Here is the input:

def new\_line():

print('.')

def three\_lines():

new\_line()

new\_line()

new\_line()

def nine\_lines(): #this function prints nine lines using "three\_lines()" three times.

three\_lines()

three\_lines()

three\_lines()

def clear\_screen(): #This function prints a string and twenty five lines using a combination of the functions above.

print("Printing 25 lines")

nine\_lines()

nine\_lines()

three\_lines()

three\_lines()

new\_line()

print("Printing 9 lines")

nine\_lines() #Calling nine\_lines.

clear\_screen() #Calling clear\_screen.

Here is the output:

Printing 9 lines

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Printing 25 lines

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