Computer Science 1	Exercises 09.01-06	Date:
Name:		Period:

1.	It is in the nature of people to create things that make our lives simpler and more enjoyable. To that end, it is also in the nature of people to create to make this process easier and more efficient.
2.	Some of the first programming <i>tools</i> created were translating programs like and
3.	What is a <i>subroutine</i> ?
4.	What is a function?
5.	What is a <i>procedure</i> ?
6.	What is <i>Modular Programming</i> ?
7.	What is the difference between calling subroutines that are built into Python and calling subroutines that you have created yourself?
8.	List the 5 things that are required in a user-defined procedure.
9.	Look at programs SimpleProcedures03.py . Why does this program not execute?
10.	Look at programs SimpleProcedures04.py . Why does this program not execute?
11.	Look at programs SimpleProcedures05.py . Explain the "Invisible Indentation Error."
12.	Look at programs SimpleProcedures06.py . Why does this program not execute?
13.	Compare programs GraphicsProcedures01.py and GraphicsProcedures02.py . Both draw the exact same 4 squares. Why is the second program so much shorter?

14.	Is placing all those statements in the "MAIN" section of your program, without organizing them in separate procedures, considered "Good Program Design?"	
15.	In a well-designed program, what should the "MAIN" section of your program resemble?	
16.	Look at program GraphicsProcedures06.py and its output. In the program, the 2 "Background" procedures are before the "House" and "Tree" procedures. Why then is the background drawn on top of the house and the tree?	
17.	Look at program GraphicsProcedures07.py and its output. How does this program fix the problem of program GraphicsProcedures06.py ?	
18.	Look at programs Library01.py , Library02.py and Library03.py . All 3 of these programs have procedure <u>calls</u> , but no procedure <u>definitions</u> . How is it possible that these programs execute without any errors?	
19.	Can a program import more than one user-created library?	
20.	What is the first step in creating a big graphics program?	
21.	When you are finished with step 1, your program will not execute. Why is this?	
22.	What is the second step in creating a big graphics program?	
23.	In general terms, what is a <i>stub</i> ?	
24.	What command is necessary to make stubs work in Python?	
25.	When you are finished with step 2, your program will execute, but it will have no output. Why is this?	
26.	What is the third step in creating a big graphics program?	
27.	What is the fourth step in creating a big graphics program?	
28.	What is the fifth step in creating a big graphics program?	