

Mission 4 - Flight Safety Review Questions

1	Select the computer science definition for: BRANCHING	<ul style="list-style-type: none"> a. A named value used in code, like a box with a label b. Reusable code with a name c. Change program execution based on a condition d. Named values that don't change during program execution
2	Select the computer science definition for: FUNCTION	<ul style="list-style-type: none"> a. A named value used in code, like a box with a label b. Reusable code with a name c. Change program execution based on a condition d. Named values that don't change during program execution
3	Select the computer science definition for: VARIABLE	<ul style="list-style-type: none"> a. A named value used in code, like a box with a label b. Reusable code with a name c. Change program execution based on a condition d. Named values that don't change during program execution
4	Select the computer science definition for: CONSTANT	<ul style="list-style-type: none"> a. A named value used in code, like a box with a label b. Reusable code with a name c. Change program execution based on a condition d. Named values that don't change during program execution
5	All of the following are safety guidelines for someone flying a drone EXCEPT:	<ul style="list-style-type: none"> a. Wear face and eye protection. b. Ground yourself by touching a door. c. Avoid contact with moving parts. d. Fly the drone in a clear, obstacle-free area.
6	What does the break statement do?	<ul style="list-style-type: none"> a. Causes the code to stop. b. Jumps over the next line of code. c. Breaks out of a loop. d. Crashes the program.
7	What line of code checks to see if B0 has been pressed?	<ul style="list-style-type: none"> a. buttons.is_pressed(B0) b. buttons.was_pressed(BTN_0) c. buttons.(BTN_0) d. buttons.pressed(B0)
8	What is this code an example of? <pre>while True: if buttons.was_pressed(BTN_0): break</pre>	<ul style="list-style-type: none"> a. Iteration b. Variable c. Function d. Safety interlock
9	What is this code an example of? <pre>sleep(0.1) buttons.was_pressed()</pre>	<ul style="list-style-type: none"> a. Bouncing a button b. Debouncing a button c. Creating a function d. Using a variable
10	What line of code defines a function?	<ul style="list-style-type: none"> a. define function_name: b. def function_name: c. def function_name(): d. function_name()

11	What line of code is a function call?	<ul style="list-style-type: none">a. <code>function_name()</code>b. <code>function_name():</code>c. <code>function_name</code>d. <code>call function_name</code>
12	What line of code assigns a value to a variable?	<ul style="list-style-type: none">A. <code>GREEN</code>B. <code>do_launch = False</code>C. <code>if buttons.was_pressed(BTN_0):</code>D. <code>for n in range(3):</code>
13	What does the variable do_launch keep track of?	<ul style="list-style-type: none">a. If the loop has finishedb. If the loop has been brokenc. Which button has been pressedd. Which motors are turning on
14	What code uses a low-level parameter system to turn on a single propeller?	<ul style="list-style-type: none">a. <code>set_param('motorPowerSet.m2', 30000)</code>b. <code>parameter('motorPowerSet.m2', 30000)</code>c. <code>motorPowerSet('m2', 30000)</code>d. Not possible – all must be turned on
15	What line of code will enable the propeller motors?	<ul style="list-style-type: none">a. <code>set_param(enabled)</code>b. <code>param(enabled)</code>c. <code>set_param('motorPowerSet.enable', 0)</code>d. <code>set_param('motorPowerSet.enable', 1)</code>