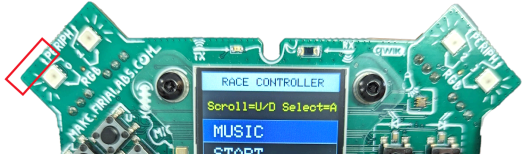


Missions 1-3 Review Kahoot Questions

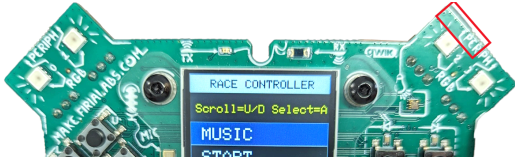
1	<p>Which port is indicated by the red box?</p> 	<ul style="list-style-type: none"> a. PORT0 b. PORT1 c. PORT2 d. PORT3
2	<p>On the peripheral connector, the black wire is connected to:</p>	<ul style="list-style-type: none"> a. S b. V c. G d. B
3	<p>The exp library needs three pieces of information to set up a peripheral. Which ONE of the following is NOT needed?</p>	<ul style="list-style-type: none"> a. Port being used b. Peripheral c. Analog or digital d. Input or output
4	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Import the exp library b. Delay code execution c. Set up a peripheral d. Define a function
5	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Delay code execution b. Define a function c. Assign a property d. Define a constant
6	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Define a function b. Call a function c. Parameter d. Argument
7	<p>The indicated code is an example of:</p>	<ul style="list-style-type: none"> a. Define a function b. Assign a property c. Define a constant d. Argument

	<pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	
8	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Define a function b. Call a function c. Parameter d. Argument
9	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Define a function b. Call a function c. Parameter d. Argument
10	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Define a function b. Call a function c. Delay code execution d. Set up a peripheral
11	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_red_led(val): led.value = val set_red_led(LED_ON) sleep(3)</pre>	<ul style="list-style-type: none"> a. Define a function b. Call a function c. Parameter d. Argument
12	<p>What type of peripheral is an LED?</p>	<ul style="list-style-type: none"> a. Digital input b. Digital output

		<ul style="list-style-type: none"> c. Analog input d. PWM output
13	What type of peripheral is a switch?	<ul style="list-style-type: none"> a. Digital input b. Digital output c. Analog input d. PWM output
14	What type of peripheral is a potentiometer?	<ul style="list-style-type: none"> a. Analog input b. Digital input c. Digital output d. PWM output
15	What type of peripheral is a motion sensor?	<ul style="list-style-type: none"> a. Analog input b. Digital input c. Digital output d. PWM output
16	What code reads the current position of a button?	<ul style="list-style-type: none"> a. <code>exp.digital_in(exp.PORT1)</code> b. <code>button.value</code> c. <code>value.button</code> d. <code>button = value</code>
17	What keyword allows you to add conditional branches to an if statement?	<ul style="list-style-type: none"> a. <code>else</code> b. <code>break</code> c. <code>and</code> d. <code>elif</code>
18	What keyword is executed when no other branch is TRUE?	<ul style="list-style-type: none"> a. <code>else</code> b. <code>break</code> c. <code>and</code> d. <code>elif</code>
19	What code will check if the switch position is the same as POWER_ON?	<ul style="list-style-type: none"> a. <code>POWER_ON = True</code> b. <code>POWER_ON == True</code> c. <code>if switch.value = POWER_ON:</code> d. <code>if switch.value == POWER_ON:</code>
20	What code will assign a value to POWER_ON?	<ul style="list-style-type: none"> a. <code>POWER_ON = True</code> b. <code>POWER_ON == True</code> c. <code>if switch.value = POWER_ON:</code> d. <code>if switch.value == POWER_ON:</code>
21	What is an example of a 75% duty cycle?	<ul style="list-style-type: none"> a. The LED is on for .25 out of every second b. The LED is on for .50 out of every second c. The LED is on for .75 out of every second d. The LED is dim for .75 of every second
22	When the LED is set up as PWM, what is the value for LED_OFF?	<ul style="list-style-type: none"> a. <code>LED_OFF = False</code> b. <code>LED_OFF = 2**10</code> c. <code>LED_OFF = 0</code> d. <code>LED_OFF = True</code>
23	When the LED is set up as PWM, what code will assign it a value?	<ul style="list-style-type: none"> a. <code>led.value = val</code> b. <code>value.led = val</code> c. <code>led(duty_cycle)</code> d. <code>led.duty_cycle = val</code>
24	What code returns the number of milliseconds since	<ul style="list-style-type: none"> a. <code>time.sleep()</code>

	reboot?	<ul style="list-style-type: none"> b. time.sleep_ms() c. time.ticks() d. time.ticks_ms()
25	<p>The following code is an example of:</p> <pre> while True: if motion_sensor.value == MOTION_DETECTED: turn_off_time = time.ticks_ms() + ON_TIME while time.ticks_ms() < turn_off_time: set_led(potentiometer.value) </pre>	<ul style="list-style-type: none"> a. Branching b. Abstraction c. Nested loop d. Setting up a peripheral

Missions 1-3 Exam Questions

1	<p>Which port is indicated by the red box?</p> 	<ul style="list-style-type: none"> A. PORT0 B. PORT1 C. PORT2 D. PORT3
2	<p>On the peripheral connector, the yellow wire is connected to:</p>	<ul style="list-style-type: none"> A. Y B. S C. V D. G
3	<p>The exp library needs three pieces of information to set up a peripheral. Which ONE of the following is NOT needed?</p>	<ul style="list-style-type: none"> A. Peripheral B. Port being used C. Analog or digital D. Input or output
4	<p>The indicated code is an example of:</p> <pre> LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3) </pre>	<ul style="list-style-type: none"> A. Delay code execution B. Define a constant C. Set up a peripheral D. Define a function
5	<p>The indicated code is an example of:</p> <pre> LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3) </pre>	<ul style="list-style-type: none"> A. Set up a peripheral B. Define a function C. Assign a property D. Define a constant

6	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none">A. Define a functionB. Define a constantC. Assign a propertyD. Delay code execution
7	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none">A. Define a functionB. Define a constantC. Assign a propertyD. Delay code execution
8	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none">A. Define a functionB. Call a functionC. ParameterD. Argument
9	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none">A. Define a functionB. Call a functionC. ParameterD. Argument

10	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none"> A. Define a function B. Call a function C. Argument D. Delay code execution
11	<p>The indicated code is an example of:</p> <pre>LED_ON = True LED_OFF = False led = exp.digital_out(exp.PORT0) def set_led(val): led.value = val set_led(LED_OFF) sleep(3)</pre>	<ul style="list-style-type: none"> A. Set up a peripheral B. Import the exp library C. Assign a property D. Define a constant
12	<p>What type of peripheral is a potentiometer?</p>	<ul style="list-style-type: none"> A. Digital input B. Digital output C. Analog input D. Analog output
13	<p>What type of peripheral is a motion sensor?</p>	<ul style="list-style-type: none"> A. Digital input B. Digital output C. Analog input D. Analog output
14	<p>What type of peripheral is a LED?</p>	<ul style="list-style-type: none"> A. Analog input B. Digital input C. Digital output D. Analog output
15	<p>An LED can also be set up as:</p>	<ul style="list-style-type: none"> A. Digital input B. Analog output C. PWM input D. PWM output
16	<p>What code reads the current position of a switch?</p>	<ul style="list-style-type: none"> A. exp.digital_in(exp.PORT1) B. switch.value C. value.switch D. switch = value
17	<p>What keyword is executed when no other branch is TRUE?</p>	<ul style="list-style-type: none"> A. if B. elif C. else D. break

18	What keyword allows you to add conditional branches to an if statement?	<ul style="list-style-type: none"> A. if B. elif C. else D. break
19	What code will check if the button value is the same as PRESSED?	<ul style="list-style-type: none"> A. if button.value = PRESSED: B. if button.value == PRESSED: C. PRESSED = False D. PRESSED == False
20	What code will assign a value to PRESSED?	<ul style="list-style-type: none"> A. if button.value = PRESSED: B. if button.value == PRESSED: C. PRESSED = False D. PRESSED == False
21	What is an example of a 40% duty cycle?	<ul style="list-style-type: none"> A. The LED is on for .40 out of every second B. The LED is on for .60 out of every second C. The LED is on for .50 out of every second D. The LED is dim for .20 of every second
22	When the LED is set up as PWM, what is the value for LED_ON?	<ul style="list-style-type: none"> A. LED_ON = True B. LED_ON = 2**10 C. LED_ON = 0 D. LED_ON = False
23	When the LED is set up as PWM, what code will assign it a value?	<ul style="list-style-type: none"> A. led.value = val B. led.value = duty_cycle C. led(duty_cycle) D. led.duty_cycle = val
24	What code returns the number of milliseconds since reboot?	<ul style="list-style-type: none"> A. time.ticks() B. time.sleep() C. time.ticks_ms() D. time.sleep_ms()
25	<p>The following code is an example of:</p> <pre> while True: if switch.value == POWER_ON: turn_off_time = time.ticks_ms() + ON_TIME while time.ticks_ms() < turn_off_time: disco_ball() else: set_leds(GREEN) </pre>	<ul style="list-style-type: none"> A. Branching B. Abstraction C. Pulse-width modulation D. Nested loop