Mission 8 Review Kahoot Questions

What are the three states of the mission, in order?	a. lift-off, journey, land b. init, prepare, and landed c. prepare, init, landed d. morning, afternoon, night
What does this code do? `power.enable_periph_vcc(True)`	a. Provides a boost of power b. Sets up the NeoPixel ring c. Starts the servo d. Boosts the input of an object sensor
What does this code do? `set_lighting((0, 0, 0))`	a. Turns on all pixels of the NeoPixel ring b. Causes an error in the program c. Uses a list to turn off all pixels d. Uses a tuple to turn off all pixels
What type of peripheral is an object sensor?	a. Digital input b. Digital output c. Analog input d. Analog output
Which statement about an object sensor is FALSE?	a. It emits an IR light. b. It detects reflected IR energy with a phototransistor. c. It can read distances from 0 to 2** 15 mm. d. It outputs True for detected and False for not detected.
What values does the object sensor return?	a. An integer from 0 to 65535 b. False for detected and True for not detected c. True for detected and False for not detected d. 1 for detected and 0 for not detected
What is one thing the object sensor CANNOT detect?	a. Pulses as an object passes by b. Motion 10 feet away c. A black line on a white background d. Close objects
How can you boost the input of an object sensor?	a. Change the default pull to None b. Change the default pull to Pull.UP c. Change the default pull to Pull.DOWN d. Use the potentiometer
Why does the input of an object sensor need a boost?	a. It has a very weak High value b. It has a High value that is too strong c. It has a very weak Low value d. It has a Low value that is too strong
What is a reason for applying a finite-state machine to the lander?	a. It is the easiest way to write code. b. It avoids repetitive code. c. It requires fewer constants and variables. d. It avoids extra processor effort when modifying code.
What values does the microswitch return?	a. 0 for pressed and 1 for not pressed b. An integer from 0 to 65535 c. True for not pressed and False for pressed d. False for not pressed and True for pressed

Which peripheral is needed to turn the landing gear?	a. 180 servo b. 360 servo c. Potentiometer d. NeoPixel ring
Fill in the missing code: ```python # Main program # Initialize the first state lander_state = _____ set_lighting(RGB_YELLOW) landing_gear.duty_cycle = set_servo(RETRACTED) sleep(1) ```	a. 'prepare' b. 'init' c. 'landed' d. 'morning'
Fill in the missing code for "A": ```python if lander_state == 'init': if ground_sensor.value == _____A_____ : lander_state = 'prepare' set_lighting(RGB_RED) landing_gear.duty_cycle = set_servo(_B_) ```	a. EXTENDED b. RETRACTED c. TOUCHDOWN_DETECTED d. GROUND_DETECTED
Fill in the missing code for "B": ```python if lander_state == 'init': if ground_sensor.value == _____A_____ : lander_state = 'prepare' set_lighting(RGB_RED) landing_gear.duty_cycle = set_servo(_B_) ```	a. EXTENDED b. RETRACTED c. TOUCHDOWN_DETECTED d. GROUND_DETECTED