Mission 7 Assignment Log	Name:						
Pre-Mission Preparation							
The last mission needed a servo to power the fan. You learned about two kinds of servos: 360 and 180. What do you remember about servos?	Answers will vary. They can include: servos are more than DC motors. They include a controller circuit, an internal feedback mechanism, and a gearbox. They can rotate forward and backward. They use a duty cycle to determine direction. A 360 servo rotates continuously. A 180 servo is also known as positional.						
Mission 7 Checks							
Objective #1 Recreate the duty-cycle chart for the 180 servo	Percent	Angle	Direction]			
	50	45	clockwise	1			
	75	0	centered				
	100	45	counterclockwise				
	125	90	counterclockwise				
Objective #2 How do you turn off the 180 servo?	Stop sending a signal – use 0 for duty-cycle.						
Objective #3 What type of peripheral is a light sensor?	Analog input						
More light =	Higher value						
When running the code, you need to get a high reading (a lot of light), medium reading (normal light) and a low reading (dark).	High reading < individual reading >						
	Normal reading		< individual reading >				
	Low reading		< individual reading >				
Objective #4 Make a chart of each state and the constant to control the servo it will use:	State		Servo Constant	1			
	morning		< individual reading >				
	afternoon		< individual reading >	< individual reading >			
	night		< individual reading >	< individual reading >			



Change the state to night and the servo to backward							
Change the state to morning and the servo to forward							
When an input peripheral registers multiple times instead of once, like a button press.							
Add a delay before taking the next reading							
< individual reading >							
Starting state	Transitioning to	< or >	Threshold				
morning	afternoon	>	HIGH_LIGHT				
afternoon	night	<	LOW_LIGHT				
night	morning	>	LOW_LIGHT				
Post-Mission Reflection							
Answers will vary							
Answers will vary							
	Change the state Change the state Change the state Mhen an input of once, like a Add a delay ba < individual rea Starting state morning afternoon night Answers will va	Change the state to night and the state to morning afternoon afternoon afternoon afternoon afternoon afternoon afternoon swill vary Answers will vary Answers will vary	Change the state to night and the server Change the state to morning and the server When an input peripheral registers musof once, like a button press. Add a delay before taking the next reading > < individual reading > Starting state Transitioning to afternoon > afternoon night morning afternoon Answers will vary Answers will vary				

