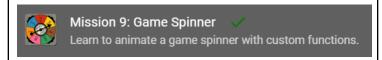


Name:

## **Mission 9 Assignment - Game Spinner**

In this project you will create a game spinner that shows a realistic spinning arrow when a button is pressed. Think of the applications!



You will create code during this lesson. When you encounter an error, make a note of what is happening and **document your debugging** process in the **table** below.

- 1. Read the introduction and complete Objective #1. You do not need to create the list; it is already available to you. Use your knowledge from Mission 7 and Mission 8 to select a random arrow from the list. Use CodeTrek if you need to, but try to do this part on your own.
- 2. Complete the Quiz and Objective #2. Make sure you read the instructions carefully. Read about logical operators.

What are three logical operators? List each one and what it is used for:	Operator	Used for:
3. Complete Objective #3. This includes a ne	w concept: functions. Read abo	out them.
What is a function?		
How do you define a function?		
How do you call a function?		
Where should you define a function?		
What is a reason for defining a function?		
4. Complete Objective #4.		
How is the variable "index" used in the spin_animation function?		
What line of code updates the variable that will end the loop?		
5. Complete the Quiz and Objective #5. Ther	give definitions for the followi	ng terms:



			0
What is the definition of "simulat	ion"?		
What is the definition of "parame	ter"?		
What is the definition of "argume	nt"?		
6. Complete Objective #6. You at least 20 times until you	_	error during this obje	ective. Use the debugger and "step in"
What is the value of "index" when occurs?	n the error		
7. Complete Objective #7.			
What was the error from Objectiv	re #6?		
Why do you need two variables in the pin_animation function?			
8. Complete Objective #8.			
EXTENSION #1: Change the code so that one butt message when the loop ends.	on spins the arro	w and another butto	n is used to exit the loop. Display a
EXTENSION #2: Add sound - maybe a click or beel	o each time the A	Arrow moves. Check c	out the music.pitch() function (toolbox)
<b>EXTENSION #3:</b> Make the arrows spin counter-clo	ckwise.		
To turn in the assignment, downlo	•		ich will be a text file. Add your name in ss LMS.
Debugging Table			
As you create code, you will make you become a more confident pro	•		in the table below. Doing so will help eeded.
Error message that is displayed	Actual bug		How you fixed it



CI	IC	CFSS	CRI	ITE	RI.	۸.

Display an Arrow in a random direction
Detect an input- button A or B - to trigger the Arrow spin
Animate an Arrow spinning around
Make the Arrow gradually slow rather than stopping abruptly