Name:



Final Project:				
For the final project, you will apply the concepts learned from this Mission Pack to create a new program that contains the listed requirements. You will be graded based on your class time production, final program, and presentation.  The requirements are listed  Optionally, you can also include a GUI.	☐ Input from the user (button press, sensor data, etc.) ☐ Output to the screen (text, images, shapes, etc.) ☐ Use of sound ☐ Global variable ☐ Function with a parameter (should also have a local variable) ☐ If else statement (selection) ☐ While or For loop (iteration) ☐ List			
Final Project Step 1: Select three of your favorite the code in each one.	programs that have code you may use in the final project. Review			
Mission selected:	Code/concept reviewed:			
Mission selected:	Code/concept reviewed:			
Mission selected:	Code/concept reviewed:			
Final Project Step 2: Plan your project				
Select your project and define a clear goal. It needs to be reasonable for the time allowed and achievable. Don't try to be overly ambitious.	Describe your final project:			
Write the steps to your code. What happens first, then second, etc. (pseudocode or flowchart)  Add steps as needed.	Programming steps:  1.  2.  3.  4.  5.  6.			
Final Project Step 3: Map out your program. Wha	at functions, variables, lists and buttons will you use in the project?			

Use the charts below to help you organize the parts of your code and ensure you meet the requirements. You don't have to fill in every chart, or all the rows of every chart. Use what you need to organize your code elements.

Global Variable	Used for:	If statement (selection)	What it will do:	
Type of loop	What it will do	Function name	What it will do	
What lists, graphics data? add more lin	•	nming elements will you use	e in the project? Will you use any sensor	
Final Project Step 4: Write your code				
Use the sandbox when you write the code. Write just a few lines at a time and test often! Follow your plan and get help as needed. Remember – don't be too ambitious! Use the iterative process. Get one thing working, and then add to the program, and get that working. Then add some more. Use your code from previous projects as your guide.				
Each day that you v	work on your final project, com	plete a daily reflection.		
	nust include the requirements and comments. Your code sho	· · · · · · · · · · · · · · · · · · ·	bugs. It should be organized, with sections	
Final Project Step 5: Peer feedback. Get feedback from at least two people. Have each person fill out a form.				
Peer Review #1 Na	me:			
What do you like al specific!	oout the program – be			
Give at least one su if" or "maybe you c	uggestion. Begin with "what could"			

Peer Review #2 Name:		
What do you like about the program – be specific!		
Give at least one suggestion. Begin with "what if" or "maybe you could"		
Review the comments. Then take time to improve or	add to your project.	
Final Project Presentation		
Create a slideshow about your final project. It should include the following slides. Include code snippets where possible.    Project purpose and goal     Project planning (pseudocode or flowchart, other planning charts)     A slide on the program's input (button press, sensor data, etc.)     A slide on the program's output (images, sound, etc.)     A slide on the sound used     A slide on global variables used     A slide about one function that has a parameter and local variable     A slide about one if statement (or selection)     A slide about one loop (while or for, other than the main while True: loop)     A slide about a list used in the program     A slide about what you learned from working on the project     Biggest accomplishments     Difficulties faced     Python or programming concepts applied     A demonstration of your program (live demo, video, screenshots, etc.)		