Unit 1 (Missions 1-5) Python Code By Mission

Mission 2 – Introducing CodeX							
Import codex	from codex import *						
Display a built-in image	display.show(pics.HEART)						
All built-in images:	 pics.HEART pics.TARGET pics.ARROW_E pics.HEART_SMALL pics.TSHIRT pics.ARROW_SE pics.HAPPY pics.HOUSE pics.ARROW_SW pics.SAD pics.TIARA pics.ARROW_W pics.ARROW_N pics.ARROW_NW pics.ARROW_NW 						
Mission 3 – Light Sho	w						
Turn on ONE pixel (pixels are numbered 0, 1, 2, 3)	<pre>pixels.set(0, GREEN)</pre>						
All built-in colors	BLACK YELLOW GRAY PINK BROWN GREEN WHITE LIGHT_GRAY RED BLUE CYAN DARK_GREEN ORANGE PURPLE MAGENTA DARK_BLUE						
Import time to use sleep()	<pre>from time import sleep or from time import * (either will work)</pre>						
Cause a pause or delay in the code	sleep(1) (this will pause for 1 second)						
Define a variable (assign a value)	delay = 1 color = RED						
Use a variable with sleep()	sleep(delay)						
Instructions for using	the debugger are included in this mission (Objectives 5 & 6)						
Mission 3 Remix							
Clear the display	<pre>display.fill(BLACK)</pre>						

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Clear a pixel
                pixels.set(0, BLACK)
Import random
                 from random import randrange
module
Assign a random
                 red = randrange(256)
color
                 green = randrange(256)
                 blue = randrange(256)
Assign color from
                 color = (red, green, blue)
RGB
Use color variable
                 pixels.set(0, color)
Mission 4 - Display Games
Display a word
                 display.show("Ahoy")
Convert number to
                 word = str(number)
string
Convert string to
                 number = int(string)
number
Display a number
                                                  Can be a literal value (9)
                 display.show(str(9))
                 display.show(str(number))
                                                  Or a variable (number)
Display more than
                 display.print("Jack and Jill")
one line
                 display.print("went up a hill")
                 display.print("to fetch a pail")
                                                           use print instead of show
If / else statement
                  pressed = True
(branching)
                  if pressed:
                                                  Look for: and the indenting -- very important!
                       pixels.set(0, GREEN)
                  else:
                       pixels.set(0, RED)
Assign a value to a
                 pressed = buttons.is pressed(BTN A)
                                                                 Checks if currently pressed
button press (True
                 pressed = buttons.was pressed(BTN B)
or False)
                                                                 Checks if was pressed since last time
```

Mission 5 – Micro Musician					
Play a built-in audio clip	audio.mp3("sounds/welcome")				
All built-in audio clips	a.mp3	eight.mp3	off.mp3	six.mp3	
	africa.mp3	five.mp3	okay.mp3	techstyle.mp3	
	b.mp3	four.mp3	on.mp3	ten.mp3	
	bohemia.mp3	funk.mp3	one.mp3	three.mp3	
	button.mp3	led.mp3	power.mp3	two.mp3	
	codetrek.mp3	left.mp3	right.mp3	up.mp3	
	codex.mp3	mic.mp3	roll.mp3	welcome.mp3	
	display.mp3	nine.mp3	seven.mp3	yes.mp3	
	down.mp3	no.mp3	shire.mp3	zero.mp3	