Unit 1 CodeBot Python Code By Mission

Mission 2 – Introducing CodeBot	
Import from botcore only leds functions	`from botcore import leds`
Turn on one user LED	`leds.user_num(0, True)` – parameters are (LED number 0-7, True=on or False=off)
Line sensor LED	`leds.ls_num(0, True)` – parameters are (LED number 0-4, True=on or False=off)
Mission 3 – Time and Motion (Objectives 1-6)	
CodeSpace Debugger	**DEBUG** then use the **STEP IN** button to *step* through your code.
Import a delay	`from time import sleep`
Use sleep()	`sleep(1.0)` – will sleep (amount of time in seconds)
Define a variable	`delay = 1.0` (define variables at the top of the code, just under import statements)
Use a variable with sleep()	`sleep(delay)`
Turn off an LED	`leds.user_num(2, False)`

Turn on three types of LEDs	`leds.user_num(0, True)`
	`leds.ls_num(0, True)`
	`leds.prox_num(0, True)`
	User LEDs (middle of the bot)
	Line sensor LEDs (across the front)
	Proximity sensor LEDs (one on each side)

Use binary designation for turning on LEDs	`leds.user(0b10101010)` - 0b for binary, then 0=off, 1=on for each LED `leds.ls(0b11111)`
Mission 3 – Time and Motion (Objectives 7-9)	
Import entire library	`from botcore import *` – * is a wildcard, which means everything
Turn on motors	`motors.enable(True)` – must be done before motors will turn and wheels move

Power a motor	`motors.run(LEFT, 50)` – will turn left wheel forward at 50% power `motors.run(RIGHT, -50)` – will turn right wheel backward at 50% power
Turn off motors	`motors.enable(False)`
Mission 3 – Time and Motion (Objectives 10-11)	
Returns Boolean value button was pressed	`buttons.was_pressed(0)` – checks button 0, returns True (pressed) or False (not pressed)
Use button press in branching	`if buttons.was_pressed(0):` `elif buttons.was_pressed(1):`