Unit 1 CodeBot Vocabulary

Mission 1 Welcome		
Browser	Software that displays web pages	
Cloud	A place to save files and data through the Internet	
Objective	The steps in the mission; has a goal to accomplish	
Text editor	Where you type the code	
Code	Instructions to the computer	
Toolbox	A place in CodeSpace to keep information you learn about programming concepts so you can use it later when you need the information	
Simulation	A 3D environment that lets you see the robot move and interact in a virtual world	
Mission 2 – Introducing CodeBot		
CodeBot	A computer on wheels with lots of sensors and controls built-in	
Peripherals	Devices that give input or output to CodeBot (some CodeBot peripherals are LED lights, speaker, motors, line sensors, proximity sensors, an accelerometer, and pushbuttons)	
Motors	Programmable electric engines; powers the wheels	
LEDs	Light emitting diodes; tiny and efficient electronic components that produce light	
Wheel encoders	Discs that rotate, counting the invisible IR light beam pulses through its slots	
Static electricity	A charge that can build up and causes a jolt and spark when grounded	
Comment	Code that doesn't get run (more information in Mission 3)	
Import	Provides access to a module (or library) of built-in Python functions to use in your code	
Mission 3 – Time and Motion (Objectives 1-6)		
Physical computing	Writing code (instructions) for a physical device, like CodeBot or cars	
Editor shortcuts	Keyboard hotkeys to write code faster; combinations of keys which complete a task	
CPU	The "brain" of the computer that executes your code; the Central Processing Unit	
Debugging	The process of understanding what the computer is actually doing and then changing the code to do what you want it to do	
Delay	Functions that slow things down, like sleep(); the module must be imported first	
Blocking functions	Functions that pause program execution; no other code will run during the pause	
Literal	An actual value, like 1 or "hello" or True	
Variable	A name to which you assign some data, any type of information your program uses; must be defined before it is used	
Boolean	A value that is True or False	

Argument	Passing data to a function, determined by the position in the list when the function is called; arguments can be literal values, like True, or variables, like delay	
Binary	How a computer deals with digits; electrical connections, like switches, that are either on or off (2 states)	
Byte	8-bits of binary data	
Mission 3 – Time and Motion (Objectives 7-9)		
Comments	Notes in the code about what you are doing; increases the readability of code and is meant for humans, not the computer (they are not instructions to the computer and are not executed)	
Whitespace	Adding blank lines and space around symbols to make the code more readable (ignored by Python, non-executable)	
Algorithm	A precise sequence of instructions that the computer can follow exactly, one step at a time, to complete a task or solve a problem	
Mission 3 – Time and Motion (Objectives 10-11)		
Control flow Branching	Decision points in code; code will take a different branch or path depending on a condition	
Condition	A Boolean value (True or False), often the result of a comparison operator like <, > or = Use an if statement, optionally followed by an elif or else, for branching	
Indenting	A way to structure blocks of code by offsetting a block of code four spaces; blocks of code are indented following a statement with a colon (:)	