AP CSP Unit 2 Vocabulary By Mission / Assignment

Design Process and Flowcharts & From Code To Flowcharts	
Design process	A tool that helps you break down large projects into smaller, easier-to handle stages
Flowchart	A visualization, or graphic organizer, or an algorithm. A diagram that uses shapes, lines, and arrows to sequence steps; a visual representation of the input, output, decisions, and actions that take place within a program.
Algorithm	A sequence of steps for completing a task (step by step process)
Mission 6 - Heartbeat	
loop	Repeats a block of code, subject to a given condition.
While loop	Repeats a block of indented code as long as the condition is true.
Infinite loop	A loop that never ends because the loop is always true.
Iteration	The repeating portion of an algorithm; code that repeats until a given condition is met or a specified number of times.
Increment (a counter)	Increasing a variable by a specific amount. Often counters are incremented by one: **count = count + 1**, like a counter, but the value can be any literal number (or constant).
Decrement (a counter)	Decreasing a variable by a specific amount. Often counters are decremented by one, like a countdown: **count = count - 1**, but it can be any literal number or constant.
Mission 7 – Personal Billboard	
Comparison operator	Operators that let you compare two values; the result is True or False. Comparison operators include: ==, <, >, <=, >=, !=
Nested Condition	Another if statement that is part of (embedded in) the block of code in an if statement (an if statement within an if statement).
List	A sequence of items you can access with an index.
Index	A number that keeps track of what choice should be displayed.
Data abstraction	The process of hiding details and showing only essential information to the user. A list is a form of data abstraction because it gives a sequence of items a name that all items can then be referenced with.
Lists	
List	an ordered collection of elements
Index	a common method for referencing the elements in a list or string using numbers
Element (item)	an individual value in a list that is assigned a unique index
List Length	how many elements it contains. Lists can grow or shrink as elements are added or removed. You can calculate the current length by using the function: *len(list_name)*

Mission 8 – Answer Bot	
Range	A sequence of numbers you can iterate over. You must provide at least the stop (or last) number in the sequence. Optional: you can provide the start (or first) number in the sequence and also the step, if other than increasing by 1.
Constant	A named value that doesn't change during the run of the code. By convention, constants are represented with ALL CAPS