




Boolean Operators		Key Terms		Python to English	
AND	The AND operator will output True if both sides are true, otherwise it will be False.	Python	A programming language close to English	print('hello')	Prints a value on the screen
OR	The OR operator will output True if either or both sides are true, otherwise it will be	Syntax	The rules of a language – how it is written and presented.	input("")	Inputs a value into the computer
NOT	The NOT operator reverses the statement, if it’s True it become False, if it’s False it becomes True.	Sequence	Parts of the code that run in order	x=input("")	Inputs a value and stores it into the variable x
		String	A sequence of letters, numbers and symbols in quotation marks.	if name == ‘Fred’:	‘Checks to see if the variable ‘name’ has a value that is equal to ‘Fred’
		Function	A piece of reusable code.	else:	The other option if the conditions for an if statement are not met (eg. name = ‘Bob’ when it should be Fred)
Comparative Operators		Variable	A variable is storage location for values. The values can change.	Variables / IF / ELSE / WHILE LOOPS	
==	Equal to	Concatenation	Adding strings and variables together.	<pre>Fname = "Paul" Sname = "Smith" print (Fname+Sname)</pre>	A variable can hold a value that can be changed. We can assign a value to a variable by using an equals(=) sign.
!=	Not equal to	Selection	Use of logic commands to alter the flow of a program.	<pre>name = input("What is your name") print("Your name is "+name)</pre>	We can add 2 strings together using +, this is known as concatenating. We can get a keyboard input from the user using the input function. This example will ask the user for their name and store it in the “name” variable. We can then print that value. Combine the inputs with other Strings to print a clear message.
<	Less than	Indentation	Moves code inwards to show it belongs to the same subsection of code	<pre>obtainedKey = True if obtainedKey == True: print("Door opened")</pre>	If statements allow a section of code to only run when a certain condition is met. The print will only happen if the player has the key (the variable being True).
>=	Greater than or equal to	Integer	Whole numbers, no decimal point.	<pre>score = 3 if score == 3: print("Excellent") elif score == 2: print("Good") elif score == 1: print("Poor") elif score == 0: print("Terrible") else: print("Not a valid score")</pre>	ELIF and ELSE allows us to check variables against more conditions. We can have as many ELIF as we need but only one if and else in an else if statement block.
<=	Less than or equal to	Float	Decimal Numbers.	<pre>lives = 3 while lives != 3: answer = input("enter the correct password") if answer == "3nt3r" print("access granted") else: lives=lives-1</pre>	while loop will keep repeating code until a certain condition is met. For example repeat until lives do not
Comparative Operators		Boolean	Can only output the result of True or False.		
+	Addition	Module	A file containing a set of functions you want to include in your application.		
—	Subtraction	Iteration (Loops)	Repetition of a section of code for a set number of times or until a condition is met.		
*	Multiplication	Array	An array is a ‘list’ of data items which are all the same data type.		
/	Division	Random Module	Allows the computer to generate a random number or option.		
//	Integer division	Comparison Operator	When comparing data, a comparison operator is used to test the condition.		
%	Remainder				
* *	Exponent				
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