2.2 PROGRAMMING TECHNIQUES

DATA TYPES				
Data	Definition			
туре				
String	Text eg: "Hello"			
Integer	Whole number eg: 32			
Float/Real	Decimal number eg: 1.2			
Boolean	Two values eg: true or false			
Character	A single character eg: b			

VARIABLES AND CONSTANTS

Variable - A value which may change
while the program is running. Variables
can be local or global.

Local Variable - a variable which can only be used within the structure they are declared in.

Global Variable – a variable which can be used in any part of the code after they are declared

Constant - A value which cannot be altered as the program is running.

OPERATORS							
Operator/Function	Definition						
Exponentiation	Raises a number to a power eg: 2^{**3} OR 2 ^3 (= 2^3)						
Quotient/DIV	Gives the whole number after a division						
Remainder/MOD	Gives the remainder part of a division						
==	Is equal to						
! or <>	Is not equal to						
<	Is less than						
>	Is more than						
ARRAYS							
One-Dimensional Arrays - this is like a list. In this example an array has been created called students. The list can hold 3 items (as shown).		<pre>array students [3] students [0] = "Bob" students [1] = "Dave" students [2] = "Bob"</pre>					
This command would print the second item (1) From the array. It would print "Dave".		<pre>print(students[1])</pre>					
Two-Dimensional Arrays - these are lists within lists (like a table) Grades=[["Bob", "22%", "44%"], ["Dave", "85%", "100%"]]							
The code above creates the 2D array. The code Below would output: "Bob's first test score was 22%"		0	Bob	22%	44%		
		1	Dave	85%	100%		

print("Bob's first test score was " + Grades [0, 1]