Knowledge Organiser 2.2: Programming Fundamentals 1

Milowicage Organiser 2.2 . I rogramming randamentals 1							
1. Key Terms					5. The Common Boolean Operators		
Variable		A value stored in memory that can change while the program is running					
Constant		A value that does not change while the program is running, and is assigned when				NOT	\bigcirc AND \bigcirc OR
		the program is designed			C. Paris String Manipulation (support)		
Operator		A character that represents an action, e.g. "+" is a mathematical Operator			6. Basic String Manipulation (general) string.length		
Assignment		Giving a variable or constant a value				Obtains the length of the string in characters string.upper	
Casting		Converting a variable from one data type to another					Converts the string to uppercase
Input					string.lower		Converts the string to lowercase
2. Corr	ect Use	A value that is entered into the program after the program has started running e of Data Types			string.left(n)		Gets the left-most n characters of the string
Integer A p		positive or negative whole number used when arithmetic will be required			string.right(n)		Gets the right-most n characters of the string
Real / Float		positive or negative decimal number			string.substring(a,b)		Gets b characters of the string starting at position a
Character A s		ingle alphanumeric			ASC(char)		Returns the numerical ASCII value of char
String					7. Basic File Handling Operations (OCR Reference Language)		
3. The		ultiple characters joined together [n.b. use this for credit card numbers] Basic Programming Constructs			myFile=	open("")	Open a file
Sequence		Executing one instruction after another			myFile.c	myFile.close() Close a file	
Selection		Program branching depending on a condition			myFile.r	myFile.readLine() Read a line from a file	
Interation		sometimes called looping, is repeating sections of code. Condition controlled or		myFile.v	vriteLine()	Write a line to a file	
4. Common A		rithmetic Operators	5. Common Comparison Operators		myFile=	("")	Create a new file
+	Addition]== 	Is equal to	string.substring(a,b)		Gets b characters of the string starting at position a
-	Subtrac	tion	!=	Is not equal to		low	myFile = open ("sample.txt")
* Multip		ication	<	Is lesser than			while NOT myFile.endOfFile()
/ Division		1	>	Is greater than			print (myFile.readLine())
^	^ Exponentiation		<=	Is lesser than or equal to			endwhile