

Guide to writing Pseudocode

Pseudocode Command	Explanation	Example(s)	
←	In Pseudocode the ← symbol is often used instead of = when assigning values to variables	name ← 'Alice' age ← 17 x ← a + b x ← (a + b) / 3 x ← x + 1	INPUT ← name OUTPUT "Hello" + name
BEGIN	To begin a program Used instead of START	BEGIN Input height of rectangle Input width of rectangle CALCULATE area as height * width END	
END	To end a program Used instead of STOP		
INPUT	When the user is required to type something in or click a button	INPUT num1 INPUT num2 INPUT num3 AVERAGE = (num1 + num2 + num3) / 3 OUTPUT AVERAGE IF age is greater than or equal to 65 THEN OUTPUT "Very Old" ELSEIF age is greater than or equal to 55 THEN OUTPUT "Quite Old" ELSEIF age is greater than or equal to 45 THEN OUTPUT "Getting Old" ELSE OUTPUT "Still Young" END IF	
OUTPUT	When a message or result is printed or displayed to the user Used instead of PRINT		
IF ELSEIF ELSE	To make decisions		
FOR (loops)	To repeat code using a <u>counter</u> to control the number of iterations	FOR counter FROM 0 to 9 DO total = total * counter OUTPUT total END FOR	
WHILE (loops)	To repeat code using a <u>condition</u> to control the number of iterations	WHILE lives greater than 0 DO OUTPUT "Still playing game" lives = lives – 1 END WHILE	
Arrays/Lists	Square brackets [] are used to: <ul style="list-style-type: none"> Create arrays/lists Reference the position of items <p>-----</p> <p>A FOR loop can be used to iterate through items in a list.</p> <p>📘 <i>Works the same characters in a string!</i> 📘</p>	Students = ['Tony', 'Roger', 'Hannah', 'Jim'] OUTPUT (MyList [2]) 📘 <i>Outputs 'Hannah'</i> <p>-----</p> INPUT name FOR counter FROM 0 to LENGTH (Students) DO IF MyList[counter] = name THEN OUTPUT name + ' is at position ' + counter	

Functions/ Sub-Routines	<p>Technically, a FUNCTION is supposed to return a value, whereas a SUB ROUTINE isn't.</p> <p>Therefore use these two terms as and when appropriate.</p>	FUNCTION addition() INPUT num1 INPUT num2 total ← num1 + num2 RETURN total END FUNCTION CALL addition()
READ RECORD	To read data from a text file or database	READ MyFile.txt Record
WRITE	To read data from a text file or database	WRITE MyFile.txt Answer1, Answer2, "abc123"