

Topic 11: Programming

EAL keyword sheet - Cambridge International AS & A Level Computer Science 9618. Write the word in your own language in the last column.

Keyword	Meaning	Example sentence	In my language
declaration	Telling the program the name and type of a variable.	<i>DECLARE Age : INTEGER</i>	
assignment	Storing a value in a variable.	<i>Age <- 17</i>	
operator	A symbol for a calculation or comparison.	<i><> means not equal to.</i>	
arithmetic operator	+, -, *, /, DIV, MOD.	<i>7 MOD 3 is 1.</i>	
relational operator	=, <>, <, >, <=, >=: compare two values.	<i>Age >= 18 is a relational expression.</i>	
logical operator	AND, OR, NOT: combine conditions.	<i>IF a > 1 AND b < 5</i>	
selection	IF and CASE statements.	<i>IF Score > 50 THEN</i>	
iteration	FOR, WHILE and REPEAT loops.	<i>FOR i <- 1 TO 5</i>	
nested	One structure placed inside another.	<i>A nested loop runs inside another loop.</i>	
input / output	Reading data in / showing data out.	<i>OUTPUT 'Hello'</i>	
string handling	Functions to work with text: LEFT, RIGHT, MID, LENGTH.	<i>LENGTH('cat') gives 3.</i>	
concatenation	Joining strings together.	<i>'Hello' & 'World'</i>	
random number	A number picked by chance.	<i>RND() gives a random real.</i>	
procedure	A subroutine that does not return a value.	<i>CALL ShowMenu</i>	
function	A subroutine that returns a value.	<i>RETURNS INTEGER</i>	
parameter	A value passed into a subroutine.	<i>BYVAL means a copy is passed.</i>	
by value / by reference	Passing a copy of the data / passing the address, so the original can change.	<i>BYREF changes the original variable.</i>	
scope	The part of the program where a variable can be used.	<i>Local variables have local scope.</i>	

Keyword	Meaning	Example sentence	In my language
array	A list of values of the same type, found by an index.	<i>Marks[1] <- 75</i>	
record	A structure with different fields.	<i>TYPE Student</i>	
file handling	Opening, reading, writing and closing files.	<i>OPENFILE 'data.txt' FOR READ</i>	
library routine	A built-in subroutine that can be reused.	<i>ROUND() is a library routine.</i>	
comment	A note in the code ignored by the computer.	<i>// This loop adds the marks</i>	
indentation	Spaces at the start of a line to show structure.	<i>Indentation makes code easier to read.</i>	
naming conventions	Rules for naming variables and subroutines.	<i>Use clear names such as TotalScore.</i>	