<u>The Pocket IGCSE Pseudocode to Python</u> <u>Reference Guide</u>

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Fourth Revision

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Note 1

For my classmates and fellow G1/G2 Computer Science Students, I **EXPECT** you to have read this document prior to reading the next few pages. **PLEASE DO NOT** ask me questions that have information contained in any of these notes. I will refuse to answer your questions until you have clearly read every page of this document.

I **EXPECT** you to know that this document is just a simple side-by-side comparison/reference as to the differences between IGCSE Pseudocode and Python. I **EXPECT** you to know that this is *NOT COMPREHENSIVE!* This **does not cover and does not intend to teach HOW** to program in pseudocode! I will be releasing a guide as to how to program in Pseudocode when the time comes. *If the guide is already out, please head to https://ezntek.com/revision to find it.*

Note 2

All values in angle brackets, like so:

<variable name> <type> <value>

represent *meta-variables* or *meta-values*, which should wholly, i.e. including the beginning angle bracket, <, to the ending angle bracket, >, be replaced with an actual value that is described within the brackets.

In layman's terms, everything between <> should be replaced with what it *says* inside. You should not write the <> either.

Note 3

If there is an item that leaks onto a new line, such as,

Note 4

Some key definitions will be made:

Term	Meaning
Expression <expr></expr>	Any variable name or value, function calls, or arithmetic expressions, enclosed or not enclosed in brackets . It will be shortened to expr when necessary.
Identifier <ident></ident>	A variable name . It will be shortened to ident when necessary.
Operator	a symbol that does something, such as math. They include symbols such as * + - / etc.
	Represents repetition, i.e. repeated statements. If there is a comma, such as <statement>, That implies that there can either be one statement <statement>, or many statements separated by a comma, such as <statement>, <statement>, <statement></statement></statement></statement></statement></statement>

Note 5

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Note 6

This is the **fourth revision** of the guide. If you have earlier revisions, view the changelog:

- 1. Initial version.
- 2. Fixed syntax highlighting added consistency in the *Functions* section, and added this note.
- 3. Added a License.
- 4. Fixed inconsistencies in the notes, and slight syntax highlighting changes

Reference Guide

Item	IGCSE Pseudocode	Python
Comment Used to annotate code.	<pre>// This is a comment. // To comment, simply put two // slashes (//) in front of your text.</pre>	<pre># This is a comment. # To comment, simply put one # hashtag (#) in front of your # text.</pre>
<u>Values</u> Also known as Literals, they represent	<pre>// These are all INTEGER's, or whole // numbers 42 -2043</pre>	<pre># These are all int's, or whole # numbers 42 -2043</pre>
values.	<pre>// These are all REAL's, or decimal // numbers 3.14159 2.718282 56.52</pre>	<pre># these are all float's, or decimal # numbers 3.14159 2.718282 56.52</pre>
	<pre>// These are STRING's, or "text" // (enclosed in only "): "Good morning, user!" "Thomas" "Jason Lee"</pre>	<pre># These are str's, or "text" # (enclosed in both " and ') "Good morning, user!" 'Thomas' 'Jason Lee'</pre>
	// These are BOOLEAN's, either TRUE or FALSE TRUE FALSE	# These are bool's, either TRUE or # FALSE True False
	<pre>// These are CHAR's, or singular // characters (enclosed only in '): 'c' 'F' 'b'</pre>	# there is no CHAR in Python, just use a str.
Declaring a variable This is to make it clear to the computer that the variable exists. This is not necessary in Python.	DECLARE <variable name="">: <type> // e.g. DECLARE Name: STRING DECLARE TotalScore: INTEGER // or, DECLARE Name:STRING DECLARE TotalScore:INTEGER</type></variable>	<pre><variable name="">: <type> # e.g. name: str total_score: int</type></variable></pre>

Assignment This is used to give a value to a previously declared variable.	<pre><variable name=""></variable></pre>	<pre><variable name=""> = <expression> # e.g. name = "Thomas" total_score = 84 name = first_name</expression></variable></pre>
Input and Output This is used to give users feedback and receive input.	OUTPUT <expression> OUTPUT <expression>, // Print however many things you // require. INPUT <expression> // e.g. OUTPUT "What is your name" OUTPUT "What is your name" OUTPUT "What is your Social Security Number?" INPUT SocialSecurityNumber OUTPUT "What is your ID?" INPUT ID</expression></expression></expression>	<pre>print(<expression>) print(<expression>,) # Print however many things you # require. <variable name=""> = input(<prompt>) # e.g. print("What is your name") print("Welcome", name) # Note that if you need to input # something into an integer, you must # wrap input in int, or separate them # like so: social_security_number = int(input()) id = input("What is your ID?") id = int(id)</prompt></variable></expression></expression></pre>
Arithmetic (expression) <i>This is to do</i> <i>math.</i>	<expr> <operator> <expr> // e.g. 2 + 5 (3 * X) + 1 // you can combine it with an // asasignment, like so: NextTerm ← X + 1</expr></operator></expr>	<pre><expr> <operator> <expr> # e.g. 2 + 5 (3 * x) + 1 # you can combine it with an # assignment, like so: next_term = x + 1</expr></operator></expr></pre>
Arithmetic Assignments This is to perform a math operation on the variable itself, including incrementing a variable, etc.	<pre>// They D0 NOT exist in pseudocode, // but may be substituted with: <ident> < <ident> <operator> <expr> // e.g. Age < Age + 1 Temperature < Temperature - 5</expr></operator></ident></ident></pre>	<pre><ident> <operator>= <expr> # e.g. age += 1 temperature -= 5</expr></operator></ident></pre>

<u>Comparison</u>	// Equality	# Equality
Operators	Age = 18	age == 18
This is to check	// Greater than, less than	# Greater than, less than
the relation	Age > 18	age > 18
between two	Age < 18	age < 18
values, such as	Age V 10	
equality,	// Greater than or equal to, less	# Greater than or equal to, less
greater or less	// than or equal to	# than or equal to
than, not equal	Age >= 18	age >= 18
to, etc.	Age <= 18	age <= 18
,		- C
	// Not equal to	# Not equal to
	Age <> 18	age != 18
Boolean	<pre>// is one condition TRUE AND the</pre>	# is one condition TRUE AND the
Expressions	// other one true?	# other one true?
This is akin to	,,,	
	ConditionOne AND ConditionTwo	condition_one and condition_two
logic gates; it is		
to process one	// is one condition TRUE OR the	# is one condition TRUE OR the
or two boolean	// other one true?	<pre># other one true?</pre>
values and		
evaluate it to	ConditionOne OR ConditionTwo	condition_one or condition_two
True or False		
depending on	<pre>// is the condition NOT true?</pre>	# is the condition NOT true?
the operator.		
	NOT Condition	not condition
Conditional	// either:	<pre>if <condition>:</condition></pre>
Branching (if)	<pre>IF <condition></condition></pre>	<code> # PRESS SPACE 4 TIMES!</code>
This is to make	THEN // PRESS SPACE TWICE!	else:
a decision, a	<code> // PRESS SPACE TWICE!</code>	<code></code>
choice, to ask a	ELSE	
question,	<pre><code> // PRESS SPACE TWICE!</code></pre>	# or
whichever	ENDIF	<pre>if <condition>:</condition></pre>
		<code></code>
pleases you.	<pre>// or: IF <condition></condition></pre>	4 o 6
pieuses you.	THEN	# e.g. if age > 18:
	<code></code>	<pre>print("you can drink!")</pre>
	ENDIF	else:
		<pre>print("you cannot drink")</pre>
	// e.g.	• • • • • • • • • • • • • • • • • • • •
	IF Age > 18	
	THEN	
	OUTPUT "you can drink!"	
	ELSE	
	OUTPUT "you cannot drink"	
	ENDIF	

Chained conditional branching (if- else if-else) This is to ask multiple questions in a row.// This does not exist in pseudocode, but can be emulated in the following way: IF <condition> telse (code> else: <code> else: <code> else: <code> else: <code> else: <code> else: <code> else: <code> else: <code> if age > 18:</code></code></code></code></code></code></code></code></condition>	
branching (if- else if-else) This is to ask multiple questions in a way: elif <condition>: <code> IF <condition> THEN <code> else: <code> # e.g.</code></code></condition></code></condition>	
Dratering (IF) else if-else) This is to ask multiple questions in aIF <condition> then code> ELSE<code> else: <code> # e.g.</code></code></condition>	
else if-else) This is to ask multiple questions in aIF <condition> THEN <code><code> else: <code> # e.g.</code></code></code></condition>	I
This is to ask multiple questions in aIF <condition> THENelse: <code> # e.g.This is to ask multiple <code> # e.g.*********************************</code></code></condition>	
multiple questions in aTHEN <code> ELSE<code> # e.g.</code></code>	
questions in a ELSE # e.g.	
<i>row.</i> IF <condition> if age > 18:</condition>	
THEN print("you can drink!")	
Note that in <code> elif age > 16:</code>	
pseudocode, ELSE print("you can almost dr	:ink!")
you must follow <code> else:</code>	
this ENDIF print ("you can't drink	.")
<i>indentation</i> // with the IF statement inside the	
exactly, i.e. // larger ELSE statement being able	
THEN must be // to be repeated as many times as	
on a new line // needed.	
and indented	
by 2 spaces, and $ $ IF Age > 18	
by 4, ELSE by	
none, and the	
code block that THEN	
follows by 2. OUTPUT "You can almost drink!"	
ELSE	
ALL OTHER OUTPUT "You can't drink"	
CODE BLOCKS ENDIF	
ARE	
INDENTED BY	
4 SPACES.	
Pattern CASE OF <expr> match <expr>:</expr></expr>	
Matching <expr>: <statement>case <expr>:</expr></statement></expr>	
Jinuing a value // optionally	
that matches OTHERWISE <statement></statement>	
the one that ENDCASE # This is equivalent to	OTHERMITSE
you have, and case _:	STILINITSE
then doing // e.g. <code></code>	
something CASE OF BottleMaterial	
when you find "Plastic": OUTPUT "Unsustainable" match bottle_material:	
	, ")
	···· J
using mutch in OTHEDWISE OUTPUT "Uprocomplaced"	0
Python requires ENDCASE ENDCASE COTPOT Offectogrized Case "Glass":	,
print(Flagile)	
cube ruper .	
Thonny or print("Unrecognized")
Replit, you will	
be OK.	

Pre-condition	WHILE <condition> DO</condition>	<pre>while <condition>:</condition></pre>
iteration	<code></code>	<code></code>
(while)	ENDWHILE	
This is to repeatedly do tasks, while some condition is true (so to not infinitely loop).	<pre>// e.g. WHILE Number > 1 DO Number ← Number - 1 OUTPUT "The number is now", Number ENDWHILE</pre>	<pre># e.g. while number > 1: number -= 1 print("The number is now",number)</pre>
Post- condition iteration (repeat-until) This is also to repeatedly do tasks, while some condition is true, however the condition is checked after the code is run and not before. In pseudocode, these post- condition loops have an inverted condition, meaning that it does something until the condition is true, not while it is true.	<pre>REPEAT <code> UNTIL <condition> // e.g. REPEAT OUTPUT "Enter the password" INPUT Password <> "Secret" THEN OUTPUT "Wrong" ENDIF UNTIL Password = "Secret" </condition></code></pre>	<pre># Repeat-until loops do not exist in # Python due to it being mostly # redundant. You cannot do post- # condition loops either. You can # replicate the example like so: # negate the condition while password != "Secret": password = input("Enter the password") if password != "Secret": print("Wrong")</pre>

```
// In Pseudocode, arrays are STATIC,
                                                       # Python does not have pseudocode
Arrays
              // meaning that you cannot add or
                                                       # ARRAYs, i.e. sequences of data of a
This is used to
             // remove elements dynamically.
                                                       # fixed length, however, Python does
store sequences
                                                       # have lists with push-back/pop-back
              //
of data. or
                                                       # functionality.
              // Declaring an ARRAY (1 dimensional)
grids/matrices
              11
of data.
              // l is the lower bound, h is the
                                                       # You must also initialize every list
              // higher bound
                                                       # before using them!
              DECLARE <ident>:ARRAY[1,h] OF <type>
                                                       #
                                                       # Declaring a list (1 dimensional)
              // Declaring an ARRAY (2 dimensional)
                                                       # you do not have to specify bounds!
              //
              // l1 and h1 are the bounds of the
                                                       <ident>: list[<type>]
              // first dimension, 12 and h2 are the
              // bounds of the second dimension
                                                       # Declaring a list (2 dimensional)
              DECLARE <ident>:ARRAY[11,h1:12,h2] OF
                                                       <ident>: list[list[<type>]]
              <type>
                                                       # Initializing a list (1D):
              // e.g.
                                                       <ident> = []
              DECLARE StudentNames:ARRAY[1,5] OF
                                                       # Initializing a list (2D)
              STRING
                                                       <ident> = [[]]
              // Adapted from the IGCSE Syllabus
              DECLARE TicTacToe:ARRAY[1,3:1,3] OF
                                                       # e.g.
              CHAR
                                                       student_names: list[str]
              // Assign to an ARRAY (1 dimensional)
                                                       # Python does not have CHAR!
              tic_tac_toe: list[list[str]]
              TicTacToe[1,3] + 'X'
                                                       # Assign to a list
              // Use an ARRAY
                                                       student_names[2] = "Marcos"
              <ident>[<index>] // 1D ARRAY
              <ident>[<index1>,<index2>] // 2D ARRAY
                                                       # You can even assign a whole list!
                                                       student names = ["Tom", "James",
                                                       "Jimmy", "John", "Peter"]
              // e.g.
              StudentNames[3] // get 3<sup>rd</sup> student name
              TicTacToe[2,1] // get the character at
                                                       # Use a list
                             // 2, 1 on the Tic Tac
                                                       <ident>[<index>] # 1D list
                             // Toe board
                                                       <ident>[<index1>][<index2>] # 2D list
                                                       # e.g.
                                                       student names[3] # get 3<sup>rd</sup> student
                                                                        ‡⊧ name
                                                       tic_tac_toe[2][1] # get the character
                                                                         # at 2, 1 on the
                                                                         # Tic Tac Toe board
```

Iteration (for) This is to repeatedly do something until a counter reaches the end, which is specified.	<pre>FOR <counter> ← <begin> T0 <end> <code> NEXT <counter> FOR <counter> ← <begin> T0 <end> STEP <step></step></end></begin></counter></counter></code></end></begin></counter></pre>	<pre>for <counter> in range(<begin>, <end>): <code> for <counter> in range(<begin>, <end>, <step>): <code> # e.g. for counter in range(1, len(student_ names)): print("There is a student called ", student_names[counter], "in the class.") for odd_number in range(1, 30, 2): print(odd_number)</code></step></end></begin></counter></code></end></begin></counter></pre>
	FOR OddNumber ← 1 TO 30 STEP 2 OUTPUT OddNumber NEXT OddNumber	
Procedures These are repeatable sections of code that can be invoked (called) over and over as many times as needed. This might also be called a subprogram, or a subroutine (outdated).	<pre>// declaring procedures PROCEDURE <name> <code> ENDPROCEDURE PROCEDURE <name>(<parameter name="">: <type>, <parameter name="">:<type>,) <code> ENDPROCEDURE // e.g. PROCEDURE SayHello OUTPUT "Hello!" ENDPROCEDURE PROCEDURE Line(Size:INTEGER) FOR Length ← 1 TO Size OUTPUT '-' NEXT Length ENDPROCEDURE // calling procedures CALL <name> CALL <name>(<parameter>, <parameter>) // e.g. CALL SayHello CALL Line(10)</parameter></parameter></name></name></code></type></parameter></type></parameter></name></code></name></pre>	<pre># all "procedures" below are # technically functions, as Python # does not differentiate between # Procedures and Functions. # declaring procedures def <name>():</name></pre>

LEIINCTIONC	// dealersing for ations	" dealersing functions
<u>Functions</u>	// declaring functions	<pre># declaring functions</pre>
These are	FUNCTION <name> RETURNS <type> <code></code></type></name>	<pre>def <name>() -> <type>:</type></name></pre>
repeatable		
sections of code,	RETURN <expr> // you MUST return</expr>	return <expr> # you MUST return</expr>
but they return	// something!	# something!
values,	ENDFUNCTION	
meaning that		<pre>def <name>(<parameter name="">:<type>,</type></parameter></name></pre>
they usually	<pre>FUNCTION <name>(<parameter name="">:</parameter></name></pre>	<pre><pre>cparameter name>:<type>,) -></type></pre></pre>
	<type>, <parameter name="">:<type>,)</type></parameter></type>	<type>:</type>
process or give	RETURNS <type></type>	<code></code>
data back to	<code></code>	<pre>return <expr> # you MUST return</expr></pre>
the site of	RETURN <expr> // you MUST return</expr>	# something!
invocation, also	// something!	
known as the	ENDFUNCTION	
caller.		# e.g.
	// e.g.	<pre>def gimme_five() -> int:</pre>
Procedures can	FUNCTION GimmeFive RETURNS INTEGER	return 5
	RETURN 5	
also be referred	ENDFUNCTION	<pre>def add_one(num: int) -> int:</pre>
to as fruitless		result: int
and Functions	FUNCTION AddOne(Num:INTEGER) RETURNS	result = num + 1
fruitful due to	INTEGER	return result
functions	DECLARE Result:INTEGER	
requiring a	Result + Num + 1	<pre># calling functions</pre>
return value.	RETURN Result	<pre>gimme_five()</pre>
	ENDFUNCTION	add_one(5)
Python does not		
differentiate	// calling functions	#or use them as expressions
	GimmeFive()	add_one(gimme_five())
between	AddOne(5)	<pre>print(gimme_five(), "+ 1 is",</pre>
functions and		add_one(5))
procedures.	<pre>//or use them as expressions Addoms(CimmeFine(C))</pre>	
	AddOne(GimmeFive())	
	<pre>OUTPUT GimmeFive(), "+ 1 is", AddOne(5)</pre>	
<u>File I/O</u>	<pre>// file modes include READ and WRITE</pre>	# READ corresponds to 'r'
Self	//	# WRITE corresponds to 'w'
explanatory.	// opening files	<pre># READ AND WRITE corresponds to 'r+'</pre>
		THE READ AND WRITE COTTESPONDS TO IT
	OPENFILE <file name=""> FOR <file mode=""></file></file>	# or 'w+'
This relates to	OPENFILE <file name=""> FOR <file mode=""></file></file>	
This relates to writing data	<pre>OPENFILE <file name=""> FOR <file mode=""> // reading files (read into <variable>)</variable></file></file></pre>	# or 'w+'
This relates to writing data and reading		<pre># or 'w+' # opening files</pre>
This relates to writing data and reading data from files	<pre>// reading files (read into <variable>)</variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file< pre=""></file<></file></ident></pre>
This relates to writing data and reading data from files on the disk,	<pre>// reading files (read into <variable>)</variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files</file></file></ident></pre>
This relates to writing data and reading data from files	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>)</variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">)</file></file></ident></pre>
This relates to writing data and reading data from files on the disk,	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from</variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files</file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc.	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files</ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files</variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read()</ident></variable></file></file></ident></pre>
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This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files</variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files</variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files</variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>)</variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files CLOSEFILE <file name=""></file></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files</variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files CLOSEFILE <file name=""> // e.g.</file></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files</variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files CLOSEFILE <file name=""> // e.g. OPENFILE data.txt FOR READ AND WRITE</file></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files <ident>.close()</ident></variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files CLOSEFILE <file name=""> // e.g. OPENFILE data.txt FOR READ AND WRITE READFILE data.txt, Content</file></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files <ident>.close() # e.g.</ident></variable></ident></ident></variable></file></file></ident></pre>
This relates to writing data and reading data from files on the disk, hard drive, etc. that is not in	<pre>// reading files (read into <variable>) READFILE <file name="">, <variable> // writing files (write from <variable>) WRITEFILE <file name="">, <variable> // closing files CLOSEFILE <file name=""> // e.g. OPENFILE data.txt FOR READ AND WRITE READFILE data.txt, Content WRITEFILE data.txt, Content + "Hi!"</file></variable></file></variable></variable></file></variable></pre>	<pre># or 'w+' # opening files <ident> = open(<file name="">, <file mode="">) # reading files <variable> = <ident>.read() # writing files <ident>.write(<variable>) # closing files <ident>.close() # e.g. file = open("data.txt", "r+")</ident></variable></ident></ident></variable></file></file></ident></pre>

Appendix

The QR code for the online copy is found below.

It is hosted on my website, <u>ezntek.com</u>.



Alternatively, find it <u>here</u>.

(The URL is https://ezntek.com/revision/pseudocode_reference.html)

The blog post, which has some more information, may be found <u>here</u>.

(*The URL is <u>https://ezntek.com/posts/the-igcse-pseudocode-to-python-reference-guide-for-g1-and-g2-computer-science-20241018t2049/*)</u>