

Chapter Exercises

2.5 Exercises

1. What character is a comment? 1 Mark
2. What flag do I use for displaying a message box with a Stop Icon, Yes, No, and Cancel and right alignment of title and the text? 3 Marks
3. What does the message box flag '68' display? 2 Marks
4. Will ' "I am a string!" ' display "I am a string?" 1 Mark
5. What tool did we use to get the title of Notepad? 1 Mark
6. How can I run the tool in Question 5? 3 Marks
7. What command did we use to send text to notepad? 1 Mark
8. What macro did we use to send a new line? 1 Mark
9. What operator do I use to concatenate two strings? 1 Mark
10. If I use BlockInput(1), am I blocking input, or allowing it? 1 Mark

15 Marks Total

3.4 Exercises

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|----|---|----------------|
| 1. | What are examples of values? | 5 Marks |
| 2. | What are the 3 main types of values in AutoIt | 3 Marks |
| 3. | How can I use double quotes in a string incased in double quotes (“string <INSERT STRING WITH "" HERE>”)? | 1 Mark |
| 4. | What are Boolean values? | 2 Marks |
| | | 11 Marks Total |

4.8 Exercises

1. What is a variable? 1 Mark
2. What can be used to name a variable? 3 Marks
4. Are variables case sensitive? 1 Mark
4. What scopes can I declare variables in? 3 Marks
5. Describe the 'Naming Convention' for variables. 1 Mark
6. How can I assign values to variables? 1 Mark
7. In the following code, display the value of \$myVar in a message box.
 \$myVar = "String to display"
 ; Continue the code 1 Mark
8. What is a constant used for? 1 Mark
9. Can you change the value of a constant? 1 Mark
10. What macro will show the height of my desktop? 1 Mark
11. What is an array? 1 Mark
12. How can I access the value of an array? 1 Mark
13. What are the methods for setting the values of an array? 2 Marks

18 Marks Total

5.2 Exercises

1. What is the syntax of Run? 1 Mark
2. Create a script to run Notepad. 1 Mark
3. Edit the script for question 2 to wait until notepad has finished before displaying a message box. 2 Marks
4. Create a script the runs Calculator, and waits until the title exists, before displaying a message box. 2 Marks
5. Create a script that sends math operations to Calculator. You must run Calculator, wait for it to open, before calculating answers. 2 Marks
6. Using the script in Question 5, produce the answer for $54 + 402$? 1 Mark
7. Using the script in Question 5, produce the answer for $534 - 102$? 1 Mark
8. Using the script in Question 5, produce the answer for 5×24 ? 1 Mark
9. Using the script in Question 5, produce the answer for $54/2$? 1 Mark
10. Using the script in Question 5, produce the answer for $54 + 40 - 23 * 5 / 2$? 3 Marks

15 Marks Total

6.2 Exercises

1. What are the 3 types of operators? 4 Marks
 2. Write a script that assigns a variable with an initial value of 3 to be 4 more. 2 Marks
 3. Write a script to display to calculate $369-235$ and display the result in a message box. 2 Marks
 4. What operator should you use if you want to compare two strings, with case sensitivity? 1 Mark
 5. What about the operator for comparing strings without being case sensitive? 1 Mark
- 10 Marks Total

7.2 Exercises

- | | | |
|----|-------------------------------------|---------------|
| 1. | What is the process of branching? | 1 Mark |
| 2. | What are the conditional functions? | 3 Marks |
| 3. | What is Continue Case? | 2 Marks |
| | | 6 Marks Total |

8.2 Exercises

1. What are the 3 types of loops we have learnt? 3 Mark
2. Create a script that uses a For Loop to display the values of 1 to 5 using a message box. 2 Marks
3. Create a script that uses a While loop that displays a message box 5 times? 3 Marks
4. What is exit loop used for? 1 Mark
5. What is continue loop used for? 1 Mark
6. Write a script that uses a message box to display every number 1 through 10 except 4 and 9? 3 Marks

13 Marks Total

11.3 Exercises

In all of these questions assume the string is “The quick brown fox jumps over the lazy dog” as shown in most of the above examples.

1. Return the last 15 characters from the string 1 Mark
2. Trim the last 3 and the first 10 characters from the string 2 Marks
3. Remove all spaces from the string. 1 Mark
4. What function(s) can I use to return the first 10 characters from a string? 2 Marks

6 Marks Total

Answers

Exercises- Section 2

1.	; (1 Mark)	/1
2.	Stop Icon = 16 (1 Mark)	/3
	Yes, No, Cancel = 3 (1 Mark)	
	Right Align = 524288 (1 Mark)	
	Flag = 524307	
3.	Information Icon (1 Mark)	/2
	Yes and No buttons (1 Mark)	
4.	Yes it will. (1 Mark)	/1
5.	AutoIt Window Information Tool (1 Mark)	/1
6.	Start Menu > AutoIt v3 > AutoIt Window Info (1 Mark)	/3
	In SciTE:	
	Tools > AU3Info (1 Mark)	
	Hotkey <CTRL> + <F6> (1 Mark)	
7.	Send () (1 Mark)	/1
8.	@CRLF (1 Mark)	/1
9.	& (1 Mark)	/1
10.	Blocking Input. (1 Mark)	/1
	Total:	/15

Exercises- Section 3

1.	Numbers- 123 (1 Mark)	/5
	Letters, both uppercase and lower case- ABC abc (2 Marks)	
	Symbols- .`#(%)^ (1 Mark)	
	Or a combination of any. (1 Mark)	
2.	Strings (1 Mark)	/3
	Numbers (1 Mark)	
	Booleans (1 Mark)	
3.	“string “”with double quotes”” yeah!” (1 Mark)	/1
4.	True (1 Mark)	/2
	False (1 Mark)	
	Total:	/11

Exercises- Section 4

1. An area in computer memory, identified by name, which holds values. (1 Mark) /1
2. A-z (1 Mark) /3
0-9 (1 Mark)
_ (1 Mark)
3. No. (1 Mark) /1
4. Local (1 Mark) /3
Global (1 Mark)
Dim (1 Mark)
5. Describe the 'Naming Convention' for variables. /1
6. \$myVar = "Value" /1
Or
\$myVar = 123
(1 Mark)
7. MsgBox (0, "", \$myVar) /1
8. A variable that does not need to be changed. (1 Mark) /1
9. No. (1 Mark) /1
10. @DesktopHeight (1 Mark) /1
11. Arrays are variables that have the ability to store multiple values of data elements of the same type and size. (1 Mark) /1
12. \$myArray[index number] (1 Mark) /1
13. **Method 1** (1 Mark) /2
\$names[0] = "Alex"
\$names[1] = "Brett"
Method 2 (1 Mark)
Dim \$names[6] = ["Alex", "Brett", "Nicholas", "Jos", "Michael", "George"]
MsgBox (0, "Name", \$names[2])

Total: /18

Exercises- Section 5

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|-----|---|---------|
| 1. | Run ("filename" [, "workingdir" [, flag[, standard_i/o_flag]]]) | 1 Mark |
| 2. | Run("Notepad") | 1 Mark |
| 3. | RunWait("Notepad")
MsgBox (0, "", "Script has finished") | 2 Marks |
| 4. | Run('Calc')
WinWait('Calculator')
MsgBox (64, 'Functions', 'Your Calculator is showing.') | 2 Marks |
| 5. | Run('Calc'); (1 Mark)
WinWait('Calculator') ; (1 Mark) | 2 Marks |
| 6. | (1 Mark)
Send (54)
Send ("{+}")
Send (402)
Send ("={}") | 1 Mark |
| 7. | (1 Mark)
Send (534)
Send ("{-}")
Send (102)
Send ("={}") | 1 Mark |
| 8. | (1 Mark)
Send (5)
Send ("{*}")
Send (24)
Send ("={}") | 1 Mark |
| 9. | (1 Mark)
Send (54)
Send ("{/}")
Send (2)
Send ("={}") | 1 Mark |
| 10. | (1 Mark)
Send (54)
Send ("{+}")
Send (40)
Send ("{-}")
Send (23)
Send ("{*}")
Send (5)
Send ("{/}")
Send (2)
Send ("={}") | 3 Marks |

Total: /15

Exercises- Section 6

1.	Assignment (1 Mark)	4 Marks
	Mathematical (1 Mark)	
	Comparison (1 Mark)	
	Logical (1 Mark)	
2.	\$var = 3; 1 Mark	2 Marks
	\$var += 4; 1 Mark	
3.	\$var = 369-235; 1 Mark	2 Marks
	MsgBox (0, "Answer", \$var); 1 Mark	
4.	== (1 Mark)	1 Mark
5.	= (1 Mark)	1 Mark
	Total:	/10

Exercises- Section 7

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|----|---|---------|
| 1. | Creating scripts that carry out tasks conditionally. (1 mark) | 1 Mark |
| 2. | If...Else...Elseif...EndIf (1 Mark) | 3 Marks |
| | Switch...Case...EndSwitch (1 Mark) | |
| | Select...Case...EndSelect (1 Mark) | |
| 3. | Aborts the current case, and then continues to the next case. | 2 Marks |
| | Total: | /6 |

Exercises- Section 8

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|----|---|---------|
| 1. | For...Next (1 Mark)
Do...Until (1 Mark)
While...Wend (1 Mark) | 3 Mark |
| 2. | For \$i = 1 To 5; (1 Mark)
MsgBox (0, "", \$i) ; (1 Mark)
Next | 2 Marks |
| 3. | \$i = 0
While 1; (0.5 Mark)
\$i += 1; (0.5 Mark)
If \$i = 6 Then ExitLoop; (1 Mark)
MsgBox (0, "", \$i) ; (1 Mark)
Wend | 3 Marks |
| 4. | Exit the current loop. (1 Mark) | 1 Mark |
| 5. | Continue the loop again in the next iteration. (1 Mark) | 1 Mark |
| 6. | This is an example for a While loop. A for loop or Do loop could be used.
\$i = 0
While 1
\$i += 1
If \$i = 4 Then ContinueLoop; 1 Mark
If \$i = 9 Then ContinueLoop; 1 Mark
If \$i = 11 Then ExitLoop; 1 Mark
MsgBox (0, "", \$i)
Wend | 3 Marks |

Total: /13

Exercises- Section 7

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|----|---|---------|
| 1. | <code>StringRight(\$string,15)</code> | 1 Mark |
| 2. | <code>StringTrimLeft(StringTrimRight(\$string,10),3)</code> | 2 Marks |
| 3. | <code>StringStripWS(\$string,8)</code> | 1 Mark |
| 4. | <code>StringLeft()</code>
<code>StringMid()</code> | 2 Marks |

6 Marks Total