

Chapter Exercises

2.5 Exercises

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|-----|--|---------|
| 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

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|-----|---|---------|
| 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

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|-----|---|---------|
| 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

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|----|---|----------------|
| 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?
2. What are the conditional functions?
3. What is Continue Case?

1 Mark

3 Marks

2 Marks

6 Marks Total

8.2 Exercises

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|----|---|---------|
| 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.

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|----|---|---------|
| 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) | 3 Mark |
| | Do...Until (1 Mark) | |
| | While...Wend (1 Mark) | |
| 2. | For \$i = 1 To 5; (1 Mark) | 2 Marks |
| | MsgBox (0, "", \$i) ; (1 Mark) | |
| | Next | |
| 3. | \$i = 0 | 3 Marks |
| | While 1; (0.5 Mark) | |
| | \$i += 1; (0.5 Mark) | |
| | If \$i = 6 Then ExitLoop; (1 Mark) | |
| | MsgBox (0, "", \$i) ; (1 Mark) | |
| | Wend | |
| 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. | 3 Marks |
| | \$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 | |

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