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# **GCE AS MARKING SCHEME**

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**SUMMER 2017**

**AS (NEW)  
COMPUTER SCIENCE - UNIT 2  
2500U20-1**

## **INTRODUCTION**

This marking scheme was used by WJEC for the 2017 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

## UNIT 2

### MARK SCHEME

#### Guidance for examiners

##### Positive marking

It should be remembered that learners are writing under examination conditions and credit should be given for what the learner writes, rather than adopting the approach of penalising him/her for any omissions. It should be possible for a very good response to achieve full marks and a very poor one to achieve zero marks. Marks should not be deducted for a less than perfect answer if it satisfies the criteria of the mark scheme.

For questions that are objective or points-based the mark scheme should be applied precisely. Marks should be awarded as indicated and no further subdivision made.

For band marked questions mark schemes are in two parts.

Part 1 is advice on the indicative content that suggests the range of computer science concepts, theory, issues and arguments which may be included in the learner's answers. These can be used to assess the quality of the learner's response.

Part 2 is an assessment grid advising bands and associated marks that should be given to responses which demonstrate the qualities needed in AO1, AO2 and AO3. Where a response is not credit worthy or not attempted it is indicated on the grid as mark band zero.

##### Banded mark schemes

Banded mark schemes are divided so that each band has a relevant descriptor. The descriptor for the band provides a description of the performance level for that band. Each band contains marks.

Examiners should first read and annotate a learner's answer to pick out the evidence that is being assessed in that question. Once the annotation is complete, the mark scheme can be applied.

This is done as a two stage process.

##### Stage 1 – Deciding on the band

When deciding on a band, the answer should be viewed holistically. Beginning at the lowest band, examiners should look at the learner's answer and check whether it matches the descriptor for that band. Examiners should look at the descriptor for that band and see if it matches the qualities shown in the learner's answer. If the descriptor at the lowest band is satisfied, examiners should move up to the next band and repeat this process for each band until the descriptor matches the answer.

If an answer covers different aspects of different bands within the mark scheme, a 'best fit' approach should be adopted to decide on the band and then the learner's response should be used to decide on the mark within the band. For instance if a response is mainly in band 2 but with a limited amount of band 3 content, the answer would be placed in band 2, but the mark awarded would be close to the top of band 2 as a result of the band 3 content. Examiners should not seek to mark candidates down as a result of small omissions in minor areas of an answer.

## **Stage 2 – Deciding on the mark**

Once the band has been decided, examiners can then assign a mark. During standardising (marking conference), detailed advice from the Principal Examiner on the qualities of each mark band will be given. Examiners will then receive examples of answers in each mark band that have been awarded a mark by the Principal Examiner. Examiners should mark the examples and compare their marks with those of the Principal Examiner.

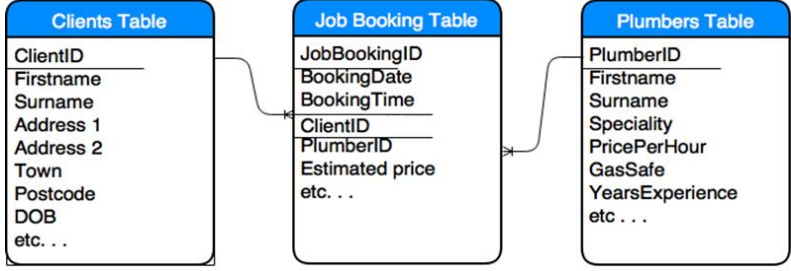
When marking, examiners can use these examples to decide whether a learner's response is of a superior, inferior or comparable standard to the example. Examiners are reminded of the need to revisit the answer as they apply the mark scheme in order to confirm that the band and the mark allocated is appropriate to the response provided.

Indicative content is also provided for banded mark schemes. Indicative content is not exhaustive, and any other valid points must be credited. In order to reach the highest bands of the mark scheme a learner need not cover all of the points mentioned in the indicative content but must meet the requirements of the highest mark band. Where a response is not creditworthy, that is contains nothing of any significance to the mark scheme, or where no response has been provided, no marks should be awarded.

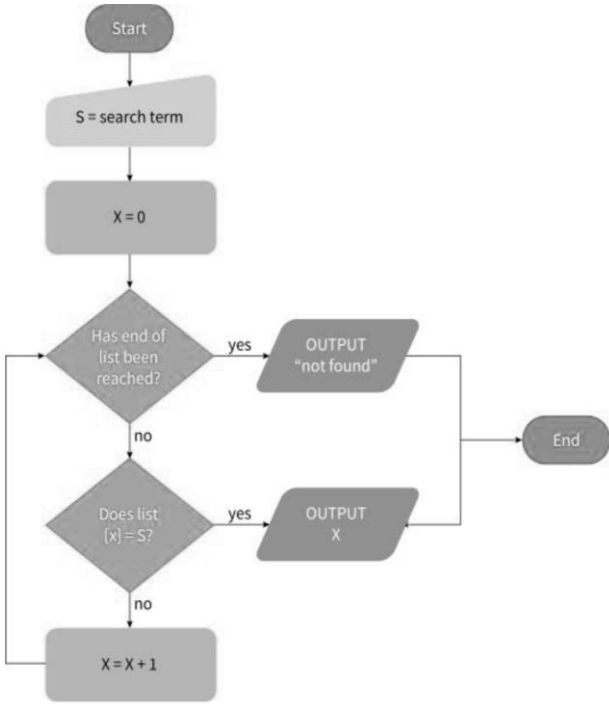
**GCE AS COMPUTER SCIENCE - UNIT 2 (NEW)**

**SUMMER 2017 MARK SCHEME**

**SECTION A**

Q	Answer	Mark	AO1	AO2	AO3	Total
1	<p>One mark for each:</p> <ul style="list-style-type: none"> <li>• Correct relationship links</li> <li>• Foreign key from Clients table (ClientID)</li> <li>• Foreign key from Plumbers Table (PlumberID)</li> <li>• Clients Table completed with example fields</li> <li>• Booking Table completed with example fields</li> <li>• Plumbers Table completed with example fields</li> </ul> <p>Indicative content:</p> 	<p>1 1 1 1 1 1 1</p>		2.1b		6

Q	Answer	Mark	AO1	AO2	AO3	Total																																																																																
2	<p>Candidate has designed suitable:</p> <ul style="list-style-type: none"> <li>• Fieldnames x 2 (2 suitable fields in addition to KF)</li> <li>• Data types x 2 (accept auto number as type)</li> <li>• Key Fields x 2 (any indicator of KF if clear (*/underline))</li> <li>• Field lengths x 2 (accept single/double)</li> <li>• Requirements for Validation (2 types) x 2 <ul style="list-style-type: none"> <li>○ Range, Format, Presence, Length . . .</li> </ul> </li> </ul> <p><b>Indicative content</b></p> <p>Non exhaustive example of Clients table:</p> <table border="1"> <thead> <tr> <th>Fieldname</th> <th>Key field</th> <th>Data Type</th> <th>Field Length</th> <th>Validation</th> </tr> </thead> <tbody> <tr> <td>ClientID</td> <td>Yes</td> <td>Integer</td> <td>10</td> <td>Presence</td> </tr> <tr> <td>Title</td> <td>-</td> <td>String</td> <td>10</td> <td>Lookup Mr, Mrs, Miss ...</td> </tr> <tr> <td>FirstName</td> <td>-</td> <td>String</td> <td>25</td> <td></td> </tr> <tr> <td>...</td> <td>...</td> <td>...</td> <td>...</td> <td>...</td> </tr> <tr> <td>Postcode</td> <td>-</td> <td>String</td> <td>9</td> <td>Format LL00 0LL</td> </tr> <tr> <td>DOB</td> <td>-</td> <td>Date</td> <td>2/2/4</td> <td>Range 1-31, 1-12 ...</td> </tr> </tbody> </table> <p>Etc . . .</p> <p>Non exhaustive example of Plumbers table:</p> <table border="1"> <thead> <tr> <th>Fieldname</th> <th>Key field</th> <th>Data Type</th> <th>Field Length</th> <th>Validation</th> </tr> </thead> <tbody> <tr> <td>PlumberID</td> <td>Yes</td> <td>Integer</td> <td>10</td> <td>Presence</td> </tr> <tr> <td>Firstname</td> <td>-</td> <td>String</td> <td>20</td> <td>-</td> </tr> <tr> <td>Surname</td> <td>-</td> <td>String</td> <td>20</td> <td>-</td> </tr> <tr> <td>GasSafe</td> <td>-</td> <td>Boolean</td> <td>1</td> <td>-</td> </tr> <tr> <td>Speciality</td> <td>-</td> <td>String</td> <td>50</td> <td>Lookup (e.g. drainage specialists)</td> </tr> <tr> <td>CalloutRate</td> <td>-</td> <td>Currency/ Real</td> <td>5</td> <td>Type Check – data must be Real/Curre ncy</td> </tr> <tr> <td>HourlyRate</td> <td>-</td> <td>Currency/ Real</td> <td>5</td> <td>&gt;0</td> </tr> <tr> <td>Qualified</td> <td>-</td> <td>Date</td> <td></td> <td></td> </tr> </tbody> </table>	Fieldname	Key field	Data Type	Field Length	Validation	ClientID	Yes	Integer	10	Presence	Title	-	String	10	Lookup Mr, Mrs, Miss ...	FirstName	-	String	25		...	...	...	...	...	Postcode	-	String	9	Format LL00 0LL	DOB	-	Date	2/2/4	Range 1-31, 1-12 ...	Fieldname	Key field	Data Type	Field Length	Validation	PlumberID	Yes	Integer	10	Presence	Firstname	-	String	20	-	Surname	-	String	20	-	GasSafe	-	Boolean	1	-	Speciality	-	String	50	Lookup (e.g. drainage specialists)	CalloutRate	-	Currency/ Real	5	Type Check – data must be Real/Curre ncy	HourlyRate	-	Currency/ Real	5	>0	Qualified	-	Date			2 2 2 2 2		2.1b 2.1b 2.1b 2.1b 2.1b		10
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Q	Answer	Mark	AO1	AO2	AO3	Total
3	<p><b>Indicative content</b></p>  <pre> graph TD     Start([Start]) --&gt; S[/S = search term/]     S --&gt; X0[X = 0]     X0 --&gt; D1{Has end of list been reached?}     D1 -- yes --&gt; O1[/OUTPUT "not found"/]     O1 --&gt; End([End])     D1 -- no --&gt; D2{Does list [x] = S?}     D2 -- yes --&gt; O2[/OUTPUT X/]     O2 --&gt; End     D2 -- no --&gt; Xinc[X = X + 1]     Xinc --&gt; D1 </pre> <p>One mark for each:</p> <ul style="list-style-type: none"> <li>• Initialising variable</li> <li>• Correct symbols</li> <li>• Correct decision (search match for list = search item type)</li> <li>• Correct use of a loop</li> <li>• Incrementing the counter</li> <li>• Correct use of terminating condition (end of list)</li> <li>• Correct output location</li> <li>• Correct output not found</li> </ul> <p>Notes: There may be many ways to solve the problem.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>		<p>2.1b</p> <p>2.1b</p> <p>2.1b</p> <p>2.1b</p> <p>2.1b</p> <p>2.1b</p> <p>2.1b</p> <p>2.1b</p>		8

Q	Answer	Mark	AO1	AO2	AO3	Total
4	<b>Indicative content:</b> <ul style="list-style-type: none"> <li>• Discussion of interface (CLI/GUI)</li> <li>• Data Structures (arrays/files)</li> <li>• File handling (serial/random)</li> <li>• Validation (range, format, presence, length)</li> <li>• Local or global variables used</li> <li>• Ability to handle data types (string/integer/Boolean)</li> </ul>	6		2.1b		6

Band	AO2.1b
	Max 6 marks
	<b>5 - 6 marks</b>
3	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written an extended response that has a sustained line of reasoning which is coherent, relevant, and logically structured</li> <li>• shown clear understanding of the requirements of the question and a clear knowledge of the indicative content. Clear knowledge is defined as a response that provides five to six relevant detailed points on the selection and justification of the proposed method of solution for the three main requirements listed in the scenario</li> <li>• addressed the question appropriately with minimal repetition and no irrelevant material</li> <li>• presented a balanced discussion and justified their answer with examples</li> <li>• used appropriate technical terminology referring to the indicative content confidently and accurately.</li> </ul>
	<b>3 - 4 marks</b>
2	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written a response that has an adequate line of reasoning with elements of coherence, relevance, and logical structure</li> <li>• shown adequate understanding of the requirements of the question and a satisfactory knowledge of the topic of changeover as specified in the indicative content. Satisfactory knowledge is defined as a response that provides three to four points on the selection and justification of the proposed method of solution for the three main requirements listed in the scenario</li> <li>• presented a discussion with limited examples</li> <li>• used appropriate technical terminology referring to the indicative content.</li> </ul>
	<b>1 – 2 marks</b>
1	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written a response that that lacks sufficient reasoning and structure</li> <li>• produced a discussion which is not well developed</li> <li>• attempted to address the question but has demonstrated superficial knowledge of the topics specified in the indicative content. Superficial knowledge is defined as a response that provides one to two points on the selection and justification of the proposed method of solution for the three main requirements listed in the scenario</li> <li>• used limited technical terminology referring to the indicative content.</li> </ul>
	<b>0 marks</b>
0	Response not credit worthy or not attempted.



Q	Answer	Mark	AO1	AO2	AO3	Total
5	<p><b>Indicative content:</b></p> <p><b>Answer must be within the context of Pete’s Plumbers scenario:</b></p> <p>Possible backup methods and secondary storage:</p> <p><b>Cloud storage:</b> Pete’s Plumbers have limited data and so would be able to copy the <b>data offsite over an internet connection continuously.</b></p> <p><b>Magnetic tape</b> classically used to store backups: Inexpensive medium and so <b>affordable</b> to a small plumbing company. They could have a <b>backup policy of rotating the tapes as in a grandfather father son</b> system.</p> <p><b>External Hard disk:</b> Limited data would mean that making a copy would be practical for the company. <b>Make a copy each night/once a week and take off site</b></p> <p><b>Indicative Content:</b></p> <p>Backups protect data following primary data loss. Generations of files, e.g. the grandfather-father-son regime, allows data to be restored to a previous version following catastrophic data loss. Pete’s plumbers would have 3 copies of the data to roll back.</p> <p>Pete’s plumbers could have a backup policy: A backup policy sets out how often and to what medium backups are made. The backup medium is generally different to the active storage medium.</p>	6		2.1b		6

<b>Band</b>	<b>AO2.1b Max 8 marks</b>
<b>3</b>	<p style="text-align: center;"><b>5 - 6 marks</b></p> <p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written an extended response that has a sustained line of reasoning which is coherent, relevant, and logically structured</li> <li>• shown clear understanding of the requirements of the question and a clear knowledge of the indicative content. Clear knowledge is defined as a response that provides two to three relevant detailed points of backing up data for Pete’s Plumbers and two to three on different storage secondary storage methods, which relate to an extensive amount of the indicative content</li> <li>• addressed the question appropriately with minimal repetition and no irrelevant material</li> <li>• presented a balanced discussion and justified their answer with examples related to the clients and staff of Petes Plumbers</li> <li>• used appropriate technical terminology referring to the indicative content confidently and accurately.</li> </ul>
<b>2</b>	<p style="text-align: center;"><b>3 - 4 marks</b></p> <p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written a response that has an adequate line of reasoning with elements of coherence, relevance, and logical structure</li> <li>• shown adequate understanding of the requirements of the question and a satisfactory knowledge of the topic of backup and secondary storage methods as specified in the indicative content. Satisfactory knowledge is defined as a response that provides one to two points on both backup and secondary storage methods as signalled in the indicative content</li> <li>• presented a discussion with limited examples</li> <li>• used appropriate technical terminology referring to the indicative content.</li> </ul>
<b>1</b>	<p style="text-align: center;"><b>1 - 2 marks</b></p> <p>The candidate has:</p> <ul style="list-style-type: none"> <li>• written a response that that lacks sufficient reasoning and structure</li> <li>• produced a discussion which is not well developed</li> <li>• attempted to address the question but has demonstrated superficial knowledge of the topics specified in the indicative content. Superficial knowledge is defined as a response that provides only the names of a backup solution and one secondary storage method</li> <li>• used limited technical terminology referring to the indicative content.</li> </ul>
<b>0</b>	<p style="text-align: center;"><b>0 marks</b></p> <p style="text-align: center;">Response not credit worthy or not attempted.</p>

Q	Answer	Mark	AO1	AO2	AO3	Total
6	<p>Any valid/functional search or comparison based algorithm that returns outputs as stated in question:</p> <p><b>Example</b></p> <pre> 1 set i = 0 2 declare plumberID is integer = 0 3 declare hours is real = 0 4 declare partsCost is real = 0 5 declare found is boolean = FALSE 6 declare hourlyRate is real = 0 7 declare totalCost is real = 0 8 declare costOfLabour is real = 0 9 10 output "PlumberID = " 11 input plumberID 12 13 output "Number of hours = " 14 input hours 15 16 output "Cost of Parts = " 17 input partsCost 18 19 for i = 1 to Len(PlumberRate) {Length of Array} 20   if PlumberRate[i,0] = plumberID then 21     output "Hourly Rate=" , PlumberRate[i,1] 22     hourlyRate = PlumberRate[i,1] 23     found = TRUE 24   End if 25 next i 26 27 if found = FALSE then 28   output "invalid plumber id" 29 end if 30 31 costOfLabour= hourlyRate * hours 32 output "Total cost of labour = " , costOfLabour 33 34 totalCost = costOfLabour + partsCost 35 output "Total estimate cost = " , totalCost 36 37 End </pre> <p>One mark for each:</p> <ul style="list-style-type: none"> <li>• Initialise /declare variables</li> <li>• Accepts all inputs (plumberID, hours, parts£)</li> <li>• Looks up plumber hourly rate in array/uses array</li> <li>• Output the hourly rate for the plumber</li> <li>• Calculate and output the total cost of labour</li> <li>• Calculate and output the total estimate cost of the job</li> <li>• Output an error if invalid plumberID is entered</li> <li>• All numerically correct outputs</li> </ul> <p>Marks awarded for concepts demonstrated above. Other solutions incorporating above concepts that provide exactly the same result are to be awarded the mark.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>			<p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p> <p>3.1b</p>	<p>8</p>

## SECTION B

Q	Answer	Mark	AO1	AO2	AO3	Total
1	<b>Indicative content:</b> <ul style="list-style-type: none"> <li>• Opening the data file</li> <li>• Reading contents</li> <li>• Comparing client criteria to the list</li> <li>• Incrementing the contents of the Clients found variable</li> </ul>	4			3.1b	4

Band	AO3.1b Max 4 marks
<b>3</b>	<b>4 marks</b> The candidate has: <ul style="list-style-type: none"> <li>• Implemented all the points required as stated in the indicative content</li> <li>• Used and fully exploited the programming facilities of the language</li> <li>• Demonstrated a sound understanding of the appropriate tools and techniques available to them</li> </ul>
<b>2</b>	<b>2 - 3 marks</b> The candidate has: <ul style="list-style-type: none"> <li>• Implemented the majority of the points required as stated in the indicative content. Majority is defined as a response that provides two or three items of the functionality signalled in the indicative content</li> <li>• Used and exploited the programming facilities of the language</li> <li>• Demonstrated an understanding of the tools and techniques available to them</li> </ul>
<b>1</b>	<b>1 mark</b> The candidate has: <ul style="list-style-type: none"> <li>• Implemented only one of the points required as stated in the indicative content</li> <li>• Used some of the programming facilities of the language</li> <li>• Demonstrated a limited understanding of the tools and techniques available to them</li> </ul>
<b>0</b>	<b>0 marks</b> Response not credit worthy or not attempted.

Q	Answer	Mark	AO1	AO2	AO3	Total
2	<p><b>Indicative content:</b></p> <ul style="list-style-type: none"> <li>• Input (any four validation methods of): <ul style="list-style-type: none"> <li>• Range check</li> <li>• Format check</li> <li>• Length check</li> <li>• Presence check</li> <li>• Lookup check</li> <li>• Type check</li> </ul> </li> <li>• Stores on disc in a text file called plumberdetails.txt</li> <li>• Retrieves plumber details matching criteria from file</li> <li>• HCI fit for purpose (Textual or GUI)</li> </ul>	8			3.1b	8

Band	AO3.1b Max 8 marks
	<b>7-8 marks</b>
3	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• Created a new program including the majority of the functionality as required in the question and stated in the indicative content. The majority of the functionality is defined as a response that provides seven to eight items of the functionality signalled in the indicative content</li> <li>• Used and fully exploited the programming facilities of the language</li> <li>• Demonstrated a sound understanding of the appropriate tools and techniques available to them</li> <li>• Written code that is well structured</li> <li>• Provided evidence of a completed user interface which aids user interaction and is intuitive</li> </ul>
	<b>3-6 marks</b>
2	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• Created a new program including most of the functionality as required in the question and stated in the indicative content. Most of the functionality is defined as a response that provides three to six items of the functionality signalled in the indicative content</li> <li>• Made use of an appropriate range of the programming facilities of the language</li> <li>• Demonstrated an understanding of the tools and techniques available to them</li> <li>• Provided evidence of a completed user interface which aids user interaction</li> </ul>
	<b>1-2 marks</b>
1	<p>The candidate has:</p> <ul style="list-style-type: none"> <li>• Created a new program with a limited range of the functionality as stated in the indicative content or improved the prototype provided by adding a limited range of the new functionality as stated in the indicative content. A limited range of functionality is defined as a response that provides one to two items of the functionality signalled in the indicative content</li> <li>• Used a limited range of the programming facilities of the language</li> <li>• Demonstrated a limited understanding of the tools and techniques available to them</li> <li>• Provided evidence of a user interface</li> </ul>
0	<p><b>0 marks</b> Response not credit worthy or not attempted.</p>

Q	Answer	Mark	AO1	AO2	AO3	Total
3	<b>Indicative content:</b> Clear annotation of steps within the following routines: <ul style="list-style-type: none"> <li>• Validation</li> <li>• Storage of data to file</li> <li>• Retrieving specified data from file</li> <li>• Use of self-documenting identifiers / explanation of variables</li> </ul>	4			3.1a	4

Band	AO3.1a
	Max 4 marks
	<b>4 marks</b>
3	The candidate has: <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and included sufficient annotation to demonstrate an understanding of <b>all</b> programming routines listed in the indicative content</li> <li>• Written code using self-documenting identifiers / explained variables</li> <li>• Used appropriate technical terminology referring to the indicative content confidently and accurately.</li> </ul>
	<b>2-3 marks</b>
2	<b>Three</b> marks can be awarded if the candidate has: <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and included sufficient annotation to demonstrate an understanding of <b>all</b> programming routines listed in the indicative content</li> <li>• Not written code using self-documenting identifiers / not explained variables</li> <li>• Used appropriate technical terminology referring to the indicative content.</li> </ul> OR <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and included sufficient annotation to demonstrate an understanding of <b>two</b> of the programming routines listed in the indicative content</li> <li>• Written code using self-documenting identifiers / explained variables</li> <li>• Used appropriate technical terminology referring to the indicative content.</li> </ul> <b>Two</b> marks can be awarded if the candidate has: <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and included sufficient annotation to demonstrate an understanding of <b>two</b> of the programming routines listed in the indicative content</li> <li>• Not written code using self-documenting identifiers / not explained variables</li> <li>• Used appropriate technical terminology referring to the indicative content.</li> </ul> OR <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and included sufficient annotation to demonstrate an understanding of <b>one</b> of the programming routines listed in the indicative content</li> <li>• Written code using self-documenting identifiers / explained variables</li> <li>• Used appropriate technical terminology referring to the indicative content.</li> </ul>
	<b>1 mark</b>
1	The candidate has: <ul style="list-style-type: none"> <li>• Produced listings that are appropriately laid out and include sufficient annotation to demonstrate an understanding of <b>one</b> programming routine listed in the indicative content</li> <li>• Used limited technical terminology referring to the indicative content.</li> </ul> OR <ul style="list-style-type: none"> <li>• Written code using self-documenting identifiers</li> <li>• Used limited technical terminology referring to the indicative content.</li> </ul>
0	<b>0 marks</b> Response not credit worthy or not attempted.