
HANDOUT FOR CHAPTER 9

PROBLEM SOLVING AND DESIGN

Marking Scheme

© UCLES 2015 -2020

Section B

2 1 mark for each error identified + suggested correction

Line 1 or Small = 0: this should read Small = 999

line 5 or IF...:this should read IF Num < Small THEN Small = Num

line 8 or UNTIL: this should read UNTIL Counter = 10 or
UNTIL Counter > = 10 or
UNTIL Counter > 9

line 7 or PRINT...: PRINT Small should come after the end of the repeat loop
or

line 8 or UNTIL: this should come before line 7

[4]

1

Total	Reject	Weight	Output
0	0		
1.8		1.8	
	1	26.0	
8.8		7.0	
20.1		11.3	
30.1		10.0	
32.6		2.5	
	2	25.2	
37.6		5.0	
57.4		19.8	
	3	29.3	
		-1	57.4, 3

(2 marks)
(-1 for each error)
(then follow though)

(1 mark)

1 mark)

(1 mark)
(allow follow through)
(from Total and Reject)

[5]

4 1 mark for each error identified + suggested correction

Line 1 or Large = 9999: this should read Large = 0

Line 3 or WHILE: this should read WHILE Counter < 30

line 6 or IF: this should read IF Num > Large THEN Large = Num

line 7 or Counter = ...: this should read Counter = Counter + 1

[4]

3 (a)

Trace table set 1

A	B	C	D	E	F	Total	Check	Output
5	2	4	3	1	5	38	5	Accept

----- (1 mark)-----

Trace table set 2

A	B	C	D	E	F	Total	Check	Output
3	2	1	0	7	3	45	1	Reject

----- (1 mark)----- (1 mark) -----

[4]

(b) – (modulo 11) check digit calculation

[1]

(c) 1 mark for identifying the problem, 2 marks for the solution

Problem – doesn't deal correctly with remainder 10/a check digit of X

Solution – check Z for X as a final digit

– have a special case where check = 10

– accept where Check = 10 and F = X

[3]

5

Riders	Reject	Height	Output
0	0		
1		1.4	
2		1.3	
	1	1.1	
3		1.3	
	2	1.0	
4		1.5	
5		1.2	
6		1.3	
7		1.4	
8		1.3	
			Ready to go 2

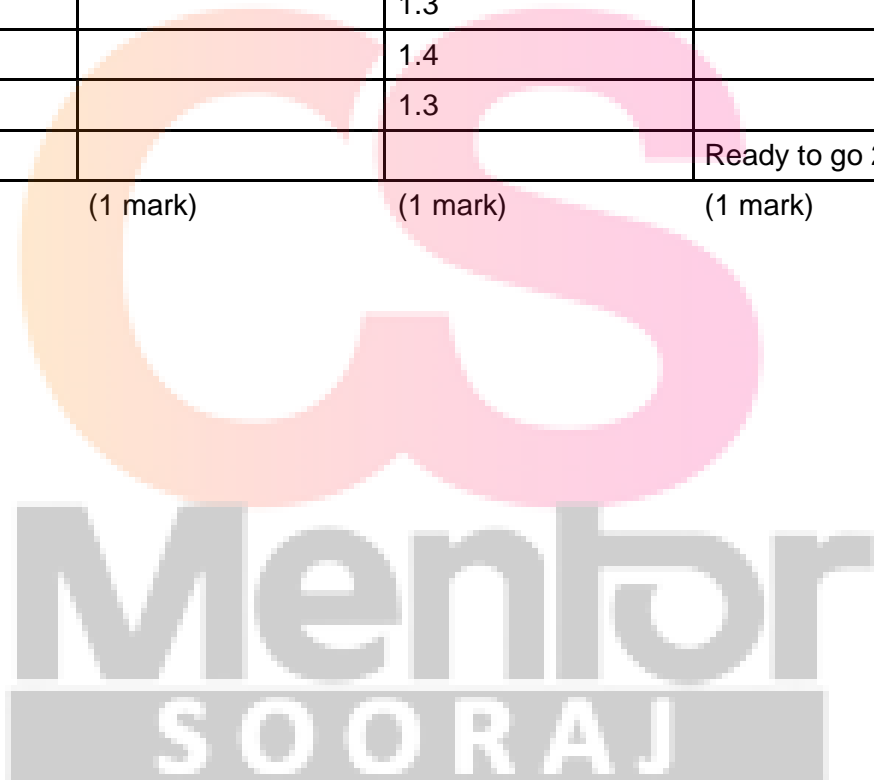
(1 mark)

(1 mark)

(1 mark)

(1 mark)

[4]



- 7 (i) 1 mark for each improvement

use FOR ... NEXT instead of REPEAT ... UNTIL

Move PRINT to after the end of the loop

Add error checking to check that the value input is positive

[3]

- (ii) 3 marks maximum, 1 mark for each improvement correctly included.

Sample answer below

1 Total = 0

2 FOR Counter = 1 To 10

3 REPEAT

4 INPUT Num

5 UNTIL Num > 0

6 Total = Total + Num

7 NEXT Counter

8 PRINT Total

[3]

6

Area	Tins	Height	Width	Doors	Windows
0	0	3	5	1	0
13.5		3	7	0	0
34.5		3	5	0	3
46.5		3	7	1	1
65		-1	0	0	0
	7				

(2 marks)

1 mark 0, 13.5

1 mark for rest

(1 mark)

(1 mark)

[4]

Question	Answer	Marks
11	<p>1 mark for each error identified and suggested correction (the corrected code must be written in full)</p> <p><i>Line 2 Correct code</i> Counter = 0 (1)</p> <p><i>Line 7 Correct code</i> Total = Total + Number // Number + Total (1)</p> <p><i>Line 8 Correct code</i> Counter = Counter + 1 // 1 + Counter (1)</p> <p><i>Line 10 Correct code</i> Average = Total / Counter // Average = Total / 50 (1)</p>	4

Question	Answer	Marks
8	<p>Must match question.</p> <p>2 marks for three suitable sub system names</p> <p>1 mark for two suitable sub system names</p>	2

Question	Answer	Marks															
9	<p>1 mark for each correct answer</p> <table border="1"> <thead> <tr> <th>Statements</th><th>Validation</th><th>Verification</th></tr> </thead> <tbody> <tr> <td>To automatically check the accuracy of a bar code</td><td>✓</td><td></td></tr> <tr> <td>To check if the data input is sensible</td><td>✓</td><td></td></tr> <tr> <td>To check if the data input matches the data that has been supplied</td><td></td><td>✓</td></tr> <tr> <td>To automatically check that all required data fields have been completed</td><td>✓</td><td></td></tr> </tbody> </table>	Statements	Validation	Verification	To automatically check the accuracy of a bar code	✓		To check if the data input is sensible	✓		To check if the data input matches the data that has been supplied		✓	To automatically check that all required data fields have been completed	✓		4
Statements	Validation	Verification															
To automatically check the accuracy of a bar code	✓																
To check if the data input is sensible	✓																
To check if the data input matches the data that has been supplied		✓															
To automatically check that all required data fields have been completed	✓																

Question	Answer	Marks
----------	--------	-------

Question	Answer				Marks																																												
10	<table><tr><th>HighF</th><th>HighC</th><th>TempF</th><th>OUTPUT</th></tr><tr><td>-100</td><td>-100</td><td></td><td></td></tr><tr><td></td><td></td><td>68</td><td></td></tr><tr><td>68</td><td>18</td><td>46</td><td></td></tr><tr><td>68</td><td>18</td><td>50</td><td></td></tr><tr><td>68</td><td>18</td><td>86</td><td></td></tr><tr><td>86</td><td>27</td><td>65</td><td></td></tr><tr><td>86</td><td>27</td><td>50</td><td></td></tr><tr><td>86</td><td>27</td><td>40</td><td></td></tr><tr><td>86</td><td>27</td><td>30</td><td></td></tr><tr><td>86</td><td>27</td><td>-1</td><td>The highest temperature is, 86 Fahrenheit, 27 Celsius.</td></tr></table>				HighF	HighC	TempF	OUTPUT	-100	-100					68		68	18	46		68	18	50		68	18	86		86	27	65		86	27	50		86	27	40		86	27	30		86	27	-1	The highest temperature is, 86 Fahrenheit, 27 Celsius.	5
HighF	HighC	TempF	OUTPUT																																														
-100	-100																																																
		68																																															
68	18	46																																															
68	18	50																																															
68	18	86																																															
86	27	65																																															
86	27	50																																															
86	27	40																																															
86	27	30																																															
86	27	-1	The highest temperature is, 86 Fahrenheit, 27 Celsius.																																														
<p>(1 Mark) (1 Mark) (1 Mark) (2 Marks – see below)</p> <p>The literal correct output is “The highest temperature is, 86 Fahrenheit, 27 Celsius.” 1 mark for values 86 and 27, 1 mark for correct output words, spacing and punctuation.</p>																																																	

Mentor
SOORAJ

Question	Answer				Marks
12	Weight	Reject	Total Weight	OUTPUT	5
		0	0		
	13		13		
	17		30		
	26	1			
	25		55		
	5		60		
	10		70		
	15		85		
	35	2			
	20		105		
			85	Weight of items 85 Number of items rejected 2	
	(1mark)	(1 mark)	(1 mark to 1st 85) (1 mark 105, 85)	(1 mark)	
Question	Answer				Marks

Mentor
SOORAJ

Question	Answer	Marks
13	<p>One mark for each (max three)</p> <p><i>10.00</i> boundary/erroneous data // the price should be rejected // value is out of range</p> <p><i>9.99</i> boundary/extreme/normal data // the prices should be accepted // value is within normal range</p> <p><i>ten</i> erroneous/abnormal data // input should be rejected // value is wrong type</p>	3

--	--	--

Mentor
SOORAJ

Question	Answer										Marks
14											5
	Digit(1)	Digit(2)	Digit(3)	Digit(4)	Digit(5)	Digit(6)	Digit(7)	Digit(8)	Sum	OUTPUT	
	5	7	0	1	2	3	4	6	44	GTIN-8	
										57012346	
	Digit(1)	Digit(2)	Digit(3)	Digit(4)	Digit(5)	Digit(6)	Digit(7)	Digit(8)	Sum	OUTPUT	
	4	3	1	0	2	3	1	0	30	GTIN-8	
										43102310	

One mark for data entry – both sets of digits 1–7







One mark for both Digit(8)

One mark for each Sum (max Two)

One mark for both OUTPUT

Question	Answer	Marks
15	One mark per value and reason, max 3 Example 1.00 – boundary rejected//rejected (underweight) // out of range(1) 1.02 – normal // valid // accepted weight in range (1) 1.10 – abnormal // erroneous // invalid // rejected (overweight) (1)	3

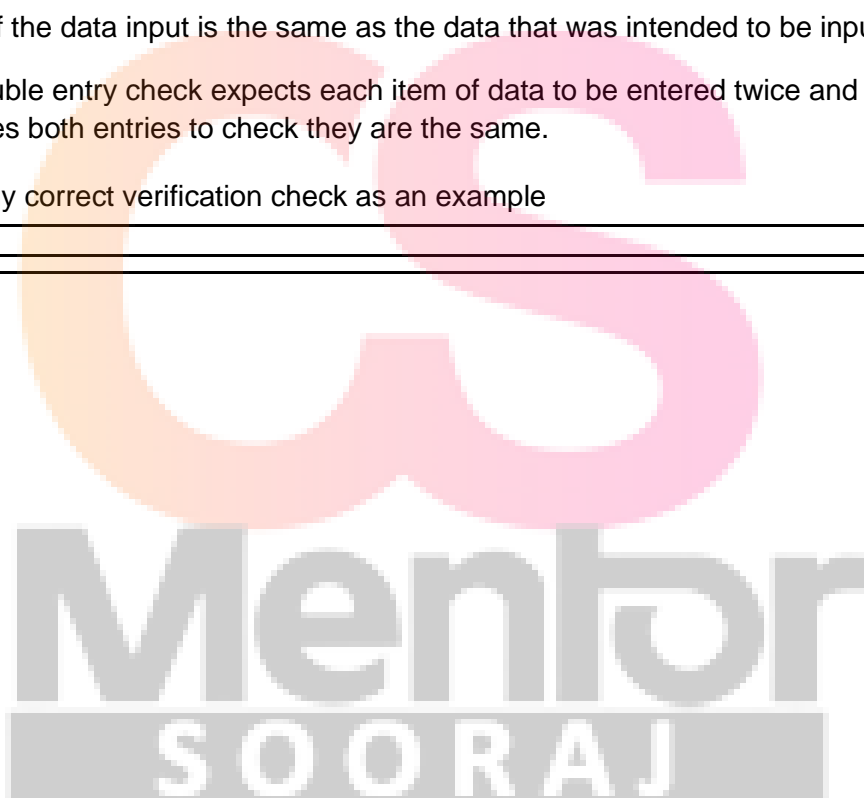


Question	Answer						Marks																																			
17(a)	<table><tr><th>Number1</th><th>Number2</th><th>Sign</th><th>Answer</th><th>OUTPUT</th></tr><tr><td>5</td><td>7</td><td>+</td><td>12</td><td>12</td></tr><tr><td>6</td><td>2</td><td>-</td><td>4</td><td>4</td></tr><tr><td>4</td><td>3</td><td>*</td><td>12</td><td>12</td></tr><tr><td>7</td><td>8</td><td>?</td><td>0</td><td></td></tr><tr><td>0</td><td>0</td><td>/</td><td>(0)</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>						Number1	Number2	Sign	Answer	OUTPUT	5	7	+	12	12	6	2	-	4	4	4	3	*	12	12	7	8	?	0		0	0	/	(0)							3
	Number1	Number2	Sign	Answer	OUTPUT																																					
	5	7	+	12	12																																					
	6	2	-	4	4																																					
	4	3	*	12	12																																					
	7	8	?	0																																						
	0	0	/	(0)																																						
 1 mark		  1 mark		  1 mark 																																						

Question	Answer	Marks
16(a)	<p>Max 4 in total Any 3 from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> To ensure no changes are made on input / <u>accuracy of transcription</u> <input type="checkbox"/> Because the details do not have fixed, values or lengths to validate <input type="checkbox"/> Because there is no clear set of rules that can be used for validation <p>Any 3 from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The programmer could ask the contributor to type in each detail twice <input type="checkbox"/> and then check that both values are equal <input type="checkbox"/> If they are not equal then the input should be rejected <input type="checkbox"/> The programmer could ask the contributor to check the details on the screen <input type="checkbox"/> and confirm that they are correct / same as the original <input type="checkbox"/> or change them 	4
16(b)	<p>One mark for email and one mark for password</p> <p>Email – check for @ / format check / no spaces /valid characters // presence check // length check (not more than 254 characters) // uniqueness check</p> <p>Password – length check / numbers and letters etc. // uniqueness check not been used before // presence check</p>	2







PUBLISHED

Question	Answer	Marks
Section B		
18(a)	<p>One mark for description one mark for example e.g.</p> <p>To test if the data entered is possible / reasonable A range check tests that data entered fits within specified values.</p> <p>Allow any correct validation check as an example</p>	2
18(b)	<p>One mark for description one mark for example e.g.</p> <p>To test if the data input is the same as the data that was intended to be input A double entry check expects each item of data to be entered twice and compares both entries to check they are the same.</p> <p>Allow any correct verification check as an example</p>	2



Question	Answer	Marks
19(a)	<p>Any two from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Expects a number to be input <input type="checkbox"/> Checks if the number is greater than 100 <input type="checkbox"/> Outputs the result of the test <input type="checkbox"/> Specific output example 	2



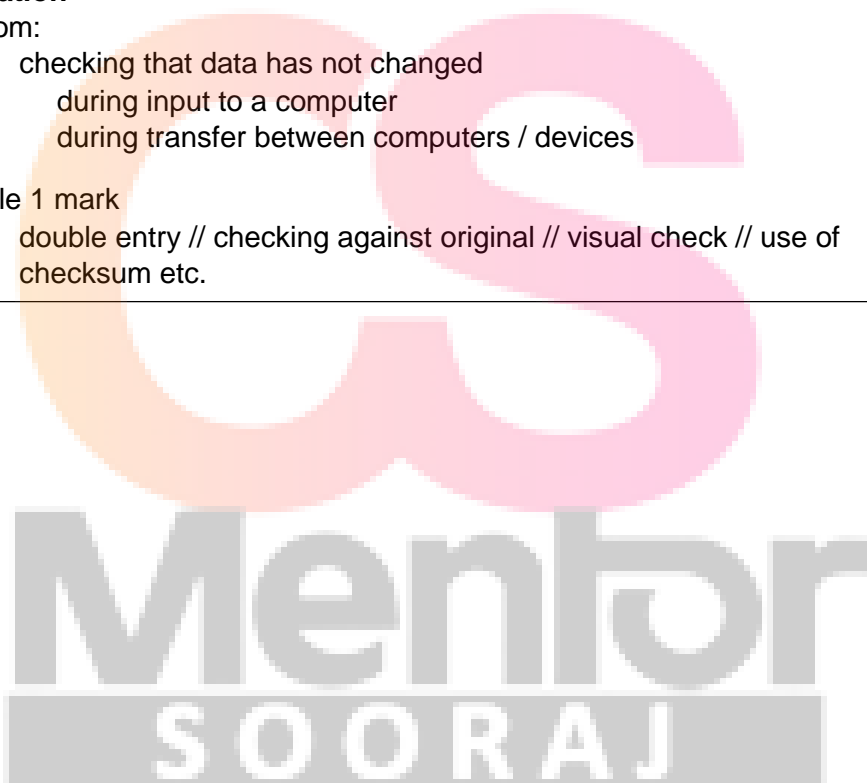
Question	Answer				Marks																																																				
20(a)	<table><tr><th>Max</th><th>Counter</th><th>Num</th><th>OUTPUT</th></tr><tr><td>-1000.00</td><td>0</td><td>6.30</td><td></td></tr><tr><td>6.30</td><td>1</td><td>18.62</td><td></td></tr><tr><td>18.62</td><td>2</td><td>50.01</td><td></td></tr><tr><td>50.01</td><td>3</td><td>3.13</td><td></td></tr><tr><td>50.01</td><td>4</td><td>2.05</td><td></td></tr><tr><td>50.01</td><td>5</td><td>50.10</td><td></td></tr><tr><td>50.10</td><td>6</td><td>40.35</td><td></td></tr><tr><td>50.10</td><td>7</td><td>30.69</td><td></td></tr><tr><td>50.10</td><td>8</td><td>0.85</td><td></td></tr><tr><td>50.10</td><td>9</td><td>17.30</td><td></td></tr><tr><td>50.10</td><td>10</td><td></td><td>50.10</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				Max	Counter	Num	OUTPUT	-1000.00	0	6.30		6.30	1	18.62		18.62	2	50.01		50.01	3	3.13		50.01	4	2.05		50.01	5	50.10		50.10	6	40.35		50.10	7	30.69		50.10	8	0.85		50.10	9	17.30		50.10	10		50.10					3
	Max	Counter	Num	OUTPUT																																																					
	-1000.00	0	6.30																																																						
	6.30	1	18.62																																																						
	18.62	2	50.01																																																						
	50.01	3	3.13																																																						
	50.01	4	2.05																																																						
	50.01	5	50.10																																																						
	50.10	6	40.35																																																						
	50.10	7	30.69																																																						
	50.10	8	0.85																																																						
	50.10	9	17.30																																																						
	50.10	10		50.10																																																					
<div><div> 1 mark </div><div> 1 mark</div><div>  1 mark </div></div>																																																									

Mentor
SOORAJ

Question	Answer	Marks
21(a)	Range check	1
21(b)	Two from: <ul style="list-style-type: none"> <input type="checkbox"/> The entered number (Value) is being checked to see that it is not < 0 or not > 100 <input type="checkbox"/> If it is, it is rejected and the user has to enter another number / an error message is displayed <input type="checkbox"/> Otherwise the number is accepted, the word 'Accepted' is output along with the Value 	2

Question	Answer		Marks
21(c)			3
	Value	OUTPUT	
		Input a value between 0 and 100 inclusive	
	200	Invalid value, try again	
	300	Invalid value, try again	
	-1	Invalid value, try again	
	50	Accepted: 50	
	1 mark – Value column 1 mark – OUTPUT column first line 1 mark – OUTPUT column lines two to five		

Question	Answer	Marks
22	<p>Validation Two from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> automated checking <input type="checkbox"/> checking that data is reasonable / of a certain type <input type="checkbox"/> checking that data meets certain criteria <p>Example 1 mark</p> <ul style="list-style-type: none"> <input type="checkbox"/> range check // length check // type check // check digit etc. <p>Verification Two from:</p> <ul style="list-style-type: none"> <input type="checkbox"/> checking that data has not changed <input type="checkbox"/> during input to a computer <input type="checkbox"/> during transfer between computers / devices <p>Example 1 mark</p> <ul style="list-style-type: none"> <input type="checkbox"/> double entry // checking against original // visual check // use of checksum etc. 	6



Question	Answer					Marks
23	Total	Count	Distinction	Mark	OUTPUT	4
	0	0	0	50		
	50	1	0	70		
	120	2	0	65		
	185	3	0	30		
	215	4	0	95		
	310	5	1	50		
	360	6	1	55		
	415	7	1	85		
	500	8	2	65		
	565	9	2	35		
	600	10		-1	Number of Distinctions 2	
					Average Mark 60	
	1 mark for Total and Count columns both correct. 1 mark for each correct column apart from Total and Count. If no marks awarded allow 1 mark for initialisation of Total, Count and Distinction, set to zero.					

Question	Answer	Marks
24(a)	<p>1 mark for each error identified + suggested correction</p> <ul style="list-style-type: none"> <input type="checkbox"/> <code>Low ← Count</code> should be <code>Low ← Number</code> <input type="checkbox"/> <code>Number > Low</code> should be <code>Number < Low</code> <input type="checkbox"/> <code>UNTIL Count = 99</code> should be <code>UNTIL Count > 99</code> or <code>UNTIL Count = 100</code> or <code>UNTIL Count >= 100</code> <code>// Count ← 1</code> should be <code>Count ← 0</code> <input type="checkbox"/> <code>PRINT "Largest Number is ", Number</code> should be <code>PRINT "Largest Number is ", High</code> 	4



Question	Answer			Marks															
25	<table><tr><th>Statements</th><th>Validation</th><th>Verification</th></tr><tr><td>Range check</td><td>✓</td><td></td></tr><tr><td>Double entry</td><td></td><td>✓</td></tr><tr><td>Check digit</td><td>✓</td><td></td></tr><tr><td>Presence check</td><td>✓</td><td></td></tr></table>			Statements	Validation	Verification	Range check	✓		Double entry		✓	Check digit	✓		Presence check	✓		4
	Statements	Validation	Verification																
	Range check	✓																	
	Double entry		✓																
	Check digit	✓																	
	Presence check	✓																	
1 mark for each correct row																			



Question	Answer			Marks																																								
26	<table><tr><th>TreadReject</th><th>Count</th><th>Depth</th><th>OUTPUT</th></tr><tr><td>0</td><td>1</td><td></td><td></td></tr><tr><td></td><td>2</td><td>1.7</td><td></td></tr><tr><td></td><td>3</td><td>1.9</td><td></td></tr><tr><td>1</td><td>4</td><td>1.4</td><td></td></tr><tr><td></td><td>5</td><td>1.8</td><td></td></tr><tr><td></td><td>6</td><td>2.0</td><td></td></tr><tr><td></td><td></td><td></td><td>Car is potentially roadworthy</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			TreadReject	Count	Depth	OUTPUT	0	1				2	1.7			3	1.9		1	4	1.4			5	1.8			6	2.0					Car is potentially roadworthy									4
	TreadReject	Count	Depth	OUTPUT																																								
	0	1																																										
		2	1.7																																									
		3	1.9																																									
	1	4	1.4																																									
		5	1.8																																									
		6	2.0																																									
				Car is potentially roadworthy																																								
	<table><tr><th>TreadReject</th><th>Count</th><th>Depth</th><th>OUTPUT</th></tr><tr><td>0</td><td>1</td><td></td><td></td></tr><tr><td>1</td><td>2</td><td>1.2</td><td></td></tr><tr><td></td><td>3</td><td>1.9</td><td></td></tr><tr><td>2</td><td>4</td><td>1.4</td><td></td></tr><tr><td></td><td>5</td><td>1.8</td><td></td></tr><tr><td></td><td>6</td><td>2.4</td><td></td></tr><tr><td></td><td></td><td></td><td>Car is not roadworthy</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>			TreadReject	Count	Depth	OUTPUT	0	1			1	2	1.2			3	1.9		2	4	1.4			5	1.8			6	2.4					Car is not roadworthy									
	TreadReject	Count	Depth	OUTPUT																																								
	0	1																																										
	1	2	1.2																																									
		3	1.9																																									
	2	4	1.4																																									
		5	1.8																																									
		6	2.4																																									
				Car is not roadworthy																																								
1 mark for each correct pairs of columns.																																												

Question	Answer	Marks
Section B		
27(a)	<p>1 mark for each error identified + suggested correction</p> <p>Count \leftarrow 1 should be Count \leftarrow 0 or Count \geq 500 should be Count $>$ 500 AND should be OR Reject \leftarrow Reject - 1 should be Reject \leftarrow Reject + 1 Reject \leftarrow Reject/100 should be Reject \leftarrow Reject/5 or Reject * 100 / 500</p>	4



Question	Answer	Marks
29	<p>One mark for each correct validation check (max two)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Range <input type="checkbox"/> Length <input type="checkbox"/> Type <input type="checkbox"/> Check Digit <p>One mark for each correct related purpose (max two) e.g.</p> <ul style="list-style-type: none"> <input type="checkbox"/> To make sure the data entered falls within a specific set of values <input type="checkbox"/> To make sure the data entered is no longer than specified <input type="checkbox"/> To make sure the data entered follows rules related to whether it is numbers or letters <input type="checkbox"/> To make sure an identification code entered is genuine or possible 	4
29(b)	<p>One mark for correct verification check (max one)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Double (data) entry <input type="checkbox"/> Visual check 	1
29(c)	<p>Any two correct statements (max two) e.g.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Validation checks if the data entered is possible/it cannot check if data has been entered correctly. <input type="checkbox"/> Verification checks if the data entered matches the data submitted for entry/ it does not check if data matches set criteria. 	2

Question	Answer	Marks																																												
30	<table><tr><th>Value</th><th>Calc1</th><th>Calc2</th><th>OUTPUT</th></tr><tr><td>50</td><td>25</td><td>16</td><td></td></tr><tr><td>33</td><td>16</td><td>11</td><td></td></tr><tr><td>18</td><td>9</td><td>6</td><td>18</td></tr><tr><td>15</td><td>7</td><td>5</td><td></td></tr><tr><td>30</td><td>15</td><td>10</td><td>30</td></tr><tr><td>-1</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> <p>One mark for each correct column (max four)</p>	Value	Calc1	Calc2	OUTPUT	50	25	16		33	16	11		18	9	6	18	15	7	5		30	15	10	30	-1																				4
Value	Calc1	Calc2	OUTPUT																																											
50	25	16																																												
33	16	11																																												
18	9	6	18																																											
15	7	5																																												
30	15	10	30																																											
-1																																														
30(b)	<p>Any two correct statements e.g.</p> <ul style="list-style-type: none"><input type="checkbox"/> The program outputs a value<input type="checkbox"/> That is divisible by 6 // 2 and 3	2																																												

Question	Answer	Marks																												
31	<p>One mark for correct input (PointsWon and PointsLost)</p> <p>One mark for correct calculations (Difference)</p> <p>One mark for correct output</p> <table><thead><tr><th>PointsWon</th><th>PointsLost</th><th>Difference</th><th>OUTPUT</th></tr></thead><tbody><tr><td>5000</td><td>4474</td><td>526</td><td>Keep on trying</td></tr><tr><td>6055</td><td>2000</td><td>4055</td><td>Well done move up</td></tr><tr><td>7900</td><td>9800</td><td>-1900</td><td>Sorry move down</td></tr><tr><td>3000</td><td>2150</td><td>850</td><td>Keep on trying</td></tr><tr><td>-1</td><td>6700</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table>	PointsWon	PointsLost	Difference	OUTPUT	5000	4474	526	Keep on trying	6055	2000	4055	Well done move up	7900	9800	-1900	Sorry move down	3000	2150	850	Keep on trying	-1	6700							3
PointsWon	PointsLost	Difference	OUTPUT																											
5000	4474	526	Keep on trying																											
6055	2000	4055	Well done move up																											
7900	9800	-1900	Sorry move down																											
3000	2150	850	Keep on trying																											
-1	6700																													

Question	Answer	Marks
32(a)	One mark for error and correction Line 1 <code>HighestMark ← 0</code> Line 7 <code>INPUT Mark[Count]</code> Line 10 <code>HighestMarkStudents ← HighestMarkStudents + 1</code> Line 14 <code>HighestMark ← Mark[Count]</code>	4

Mentor
SOORAJ

Question	Answer	Marks
35	<p>Line 2 and Line 4 errors - One mark for each correct identification and correction of error</p> <p>Error 1 line number: Line 2 Correction: REPEAT</p> <p>Error 2 line number: Line 4 Correction: IF Number < 0 OR Number > 499</p> <p>Line 8 error - One mark for correct identification of error and one mark for each correction of error</p> <p>Error 2 line number: Line 8 Correction: UNTIL Number >= 0 AND Number <= 499</p>	6

Question	Answer	Marks
33(a)	<p>One mark for each correct check (max two)</p> <ul style="list-style-type: none"> <input type="checkbox"/> Length (check) <input type="checkbox"/> Type Check <input type="checkbox"/> Format Check 	2
33(b)	<p>One mark for each suitable piece of test data and one mark for each relevant reason (max four)</p> <ul style="list-style-type: none"> <input type="checkbox"/> LL9999LL999 <input type="checkbox"/> Too long <input type="checkbox"/> 5678987 <input type="checkbox"/> All numeric <input type="checkbox"/> CB12EU <input type="checkbox"/> No space is present 	4

Question	Answer				Marks																																																														
34	<table><tr><th>Flag</th><th>Number</th><th>Divisor</th><th>Value</th><th>OUTPUT</th></tr><tr><td>False</td><td>5</td><td>2</td><td>2</td><td></td></tr><tr><td></td><td></td><td>3</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>5 is prime</td></tr><tr><td>False</td><td>6</td><td>2</td><td>3</td><td></td></tr><tr><td>True</td><td></td><td>3</td><td>2</td><td></td></tr><tr><td>True</td><td></td><td>4</td><td></td><td></td></tr><tr><td>False</td><td>8</td><td>2</td><td>4</td><td></td></tr><tr><td>True</td><td></td><td>3</td><td>2</td><td></td></tr><tr><td>True</td><td></td><td>4</td><td>2</td><td></td></tr><tr><td></td><td></td><td>5</td><td></td><td></td></tr><tr><td>False</td><td>0</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	Flag	Number	Divisor	Value	OUTPUT	False	5	2	2				3							5 is prime	False	6	2	3		True		3	2		True		4			False	8	2	4		True		3	2		True		4	2				5			False	0									5
	Flag	Number	Divisor	Value	OUTPUT																																																														
	False	5	2	2																																																															
			3																																																																
					5 is prime																																																														
	False	6	2	3																																																															
	True		3	2																																																															
	True		4																																																																
	False	8	2	4																																																															
	True		3	2																																																															
	True		4	2																																																															
			5																																																																
	False	0																																																																	
One mark for each correct column																																																																			