Question	Part	Marking guidance		Total marks	
01	1	2 marks for AO1 (recall) A sequence/number/set of steps/instructions;		2	
		that can be followed to complete a task/to solve a problem;	·		
		A. Different wording with similar meaning			
01	01 2 3 marks for AO1 (recall)			3	
	One mark for each correct distinct label.				
		If the answers given were, for example, C, C, B then award only the B as the C is duplicated. Likewise if C, C, C was the answer marks would be given. The correct table is:			
			Label		
		Breaking a problem down into a number of sub-problems.	С		
		The process of removing unnecessary detail from a problem.	А		
		Defines the sort of values a variable may take.	В		
		A. If actual terms are written out instead of labelsR. All instances of duplicate labels			

Question	Part	Marking guidance	Total marks
02	1	Mark is for AO2 (apply)	1
		Boolean//bool;	
		I. Minor spelling mistakes	

Question	Part	Marki	ng guidance		Total marks
03	1	2 mar	ks for AO1 (unders	tanding)	2
		Corre	ct table is:		
			Values	Data type	
			true, false	Boolean;	
			0, 1, 2	Integer;	
			pol/bool/boolean inst t/int instead of intege		

Qu	Part	Marking guidance	Total marks		
04	1	Mark is for AO2 (apply)	1		
		B: Integer;			
		R. If more than one lozenge shaded.			
04	2	1 mark for AO2 (apply)	1		
		Boolean/bool;			
04	3	3 marks for AO2 (apply)	3		
		1 mark for each correct value of valid;;;			
		Value of instr Final value of valid			
		ADD RO, R1 False			
		ADD: R0, R1 True			
		HALT True			
04	4	Mark is for AO1 (understanding)	1		
		Machine code;			
		A. binary;			
		A. object code;			
04	5	2 marks for AO1 (understanding)	2		
		Max 2 marks from:			
		(High-level languages) are better supported; (High-level languages) provide built-in subroutines; (High-level languages) provide programming structures such as iteration and selection; (Code written in high-level languages) is normally shorter; (High-level languages) allow creation of subroutines; (High-level languages) provide data structures; (High-level languages) are easier to understand/read; (High-level languages) are easier to debug;			
		A. any other correct justification.			

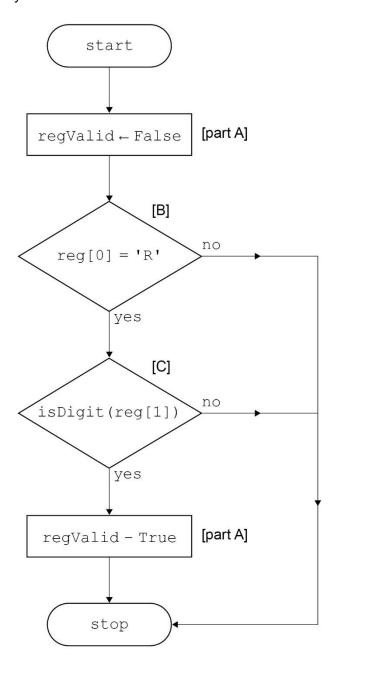
	u Part	Marking guidance	Total
'	tu Part	Marking guidance	marks

04	6	3 marks for AO3 (program)	3						
		Mark A for setting the variable regValid to True/False within a selectic structure;	on						
		Mark B for using a Boolean condition that checks if the first character is an 'R'; Mark C for using a Boolean condition that checks if the second character is a digit;							
		Max 2 marks if any errors in the answer.							
		A. minor changes to variable identifiers if the meaning is still clear.							
		Example of fully correct answer:							
		regValid ← False [part A] IF reg[0] = 'R' and isDigit(reg[1]) THEN [B,C] regValid ← True [part A] ENDIF							
		Example of another fully correct answer:							
		<pre>IF reg[0] = 'R' THEN</pre>							
		regValid ← False [part A] ENDIF ELSE							
		regValid ← False [part A] ENDIF							
		Example of 2 mark answer:							
		<pre>IF reg[0] = 'R' or isDigit(reg[1]) THEN [B,C]</pre>	1						
		regValid ← True [part A] ENDIF	I						
		(only 2 marks awarded as the answer contains an error in the Boolea condition)	an						

Example of another 2 mark answer:

(only 2 marks awarded as only part of mark A is given)

Example of a fully correct flowchart solution:



05	4 marks for AO2 (apply)	4
	A record could be used to store the data of one song; An array could store all of the songs/records;	
	One mark for one of the following, two marks for all three:	
	 The song title could be a string The singer could be a string The year of release could be an integer/date. 	

Question	Part	Marking guidance				
06	1	2 marks for AO2	(apply)		2	
		Input value of orderTotal	Input value of deliveryDistance	Output		
		55.5	2	1.5;		
		35.0	5	7.0; A. 7		

Question	Part	Marking guidance	
06	2	Mark is for AO2 (apply)	1
		2 // two;	

Question	Part	Marking guidance		
06	3	2 marks for AO2 (apply)		2
		Variable identifier	Data type	
		deliveryCost	Float // Real // Decimal	
		messageOne	String // str	
		I. Case A. Programming language	e specific data types eg Single in VB.NET	

Question	Part	Marking guidance	Total marks
06	4	Mark is for AO1 (recall)	1
		Boolean // Bool; Int // Integer; Date/Time; Character; R. Any answer that was given in 02.3 I. Case A. Any reasonable data type	

Question	Part	Marking guidance	Total marks
07	1	Mark is for AO2 (apply)	1
		A 2;	
		R. if more than one lozenge shaded	

2.1 Data Types

PhysicsAndMathsTutor.com Total marks Question Part Marking guidance 80 1 Mark is for AO2 (apply) 1 Boolean//bool; I. Case

Question	Part	Marking guidance	Total marks
09	1	Mark is for AO2 (apply)	1
		D value ← LEN(film);	
		R. If more than one lozenge shaded	

Question	Part	Marking guidance	Total marks
09	2	Mark is for AO2 (apply)	1
		POSITION(film, letter);	
		I. Case	
		R. Quotes	

Question	Part	Marking guidance	Total marks
09	3	Mark is for AO2 (apply)	1
		C integer;	
		R. If more than one lozenge shaded	

Question	Part	Marking guidance	Total marks	
09	4	Mark is for AO1 (understanding)	1	
		When a value is given to a variable;		
		H		
		When a variable is assigned a value;		

Question	Part	Marking guidance		Tota mark
09	5	2 marks for AO3 (program)		2
		Program Logic		
		Mark A for using user input and storing the result in a varial	ole;	
		Mark B for displaying You entered followed by the name entered by the user in the appropriate place;	of the film	
		 I. Case I. Indentation I. Messages or no messages with input statements I. Gaps/spaces throughout the code, except where to do so explicitly alter the logic of the code in a way that makes it income. 		
		Maximum 1 mark if any errors in code.		
		Note to examiners In C#/VB.NET examples, explicit variable declarations are r Refer to the specific language type issues section of the app Marking guidance document. Any correct variable declaration student answers should be accepted.	propriate	
		C# Example 1 (fully correct)		
		film = Console.ReadLine();	(A)	
		Console.WriteLine("You entered " + film);	(B)	
		A. Write in place of WriteLine		
		C# Example 2 (fully correct)		
		film = Console.ReadLine();	(A)	
		Console.Write("You entered ");	(Part B)	
		Console.WriteLine(film);	(Part B)	
		Python Example 1 (fully correct)		
		film = input()	(A)	
		<pre>print("You entered", film)</pre>	(B)	
		Python Example 2 (fully correct)		
		film = input()	(A)	
		print("You entered " + film)	(B)	

(Part B)

Console.WriteLine(film)

A. Write in place of WriteLine