The questions on this worksheet have been taken from the 2018 OCR GCSE Computer Science Paper 2

6-A-Day - Computer Science GCSE (p2.7-2016)

	An exar	mple of the data h	neld in this system is shown	below in Fig. 1	:	
	[StudentName	Detail	Points	LetterSent	
		Kirstie	Homework forgotten	-2	FALSE	
		Byron	Good effort in class	1	TRUE	
		Grahame	100% in a test	2	FALSE	
	Į	Marian	Bullying	-3	TRUE	
	(a) Sta		Fig. 1 opriate data type used to st			
		Points				
	•	LetterSent				[3]
						1-2
	Points.					negative
(ii)			t can be used in SQL to			

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Q4	(c)	A single record from this database table is read into a program that uses an array with the identifier studentdata. An example of this array is shown below: studentdata = ["Kirstie", "Homework forgotten", "-2", "FALSE"] The array is zero based, so studentdata[0] holds the value "Kirstie". Write an algorithm that will identify whether the data in the studentdata array shows that a letter has been sent home or not for the student. The algorithm should then output either "sent" (if a letter has been sent) or "not sent" (if a letter has not been sent).	
		[4]	
Q5	A prog	rammer has written an algorithm to output a series of numbers. The algorithm is shown	
	01	for $k = 1$ to 3	
	02	for $p = 1$ to 5	
	03	print (k + p)	
	0.4	next p	
	0.5	5 next k	
	0.6	5 m = 7	
	07	7 print m * m	
	(a) (i)	Give the first three numbers that will be printed by this algorithm.	
		[1]	
	(ii)	State how many times line 03 will be executed if the algorithm runs through once.	
		[1]	
Q6	(b) Ide	ntify two basic programming constructs that have been used in this algorithm.	
	1		
	••••		
	2		
	••••	PAT	
		[2]	