Software Design & Development			Level N5		
Revision Assessment			Name:		
Co	mputational Constructs , Data Types & Structures 1		Grade: /	5	
1.	The large chain of supermarkets, Tesdaburies have hired your of system for use in their shops.	co	ompany to create a new computeris	sed	
	In order to access the system each user must be issued a userna in the first three letters of their first name, the first three letters birth in order to generate a username.		-		
	For example: Barry Gellatly born in 1979 would type in				
	bar gel 1979				
	and his username would be bargel1979				
	a) State the name of the programming technique being used to 3 individual sets of data being entered.) (create the username from the	(1)	
	b) The user must then select a password and enter it twice to composeribe how the program would ensure that the user was retwo password entries match each other.			(1)	
2.	The manager from Tesdaburies has told you that no store will e items.				
	Your colleagues at the software company are suggesting that the supermarket be held in a list. The price of each item could be held in a list.				
	a) State the type of variable would be required to store the iter	m	names?	(1)	
	b) State the data structure would be used to store the list of 300	0	names.	(1)	

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	c) When the program runs for the first time, the names and prices for 179 items are input.					
	(i) State the type of loop that would be used to enter the names and prices?					
	(ii) Explain why this type of loop would be used.					
d)	When storing the price of each product your colleague points out that price should not be store as an integer.					
	State why should the prices not be stored as integers?					
A	variable is created to store if an item is in stock or out of stock.					
a)	State the type of variable required to store if the item is in stock or out of stock?					
	could be created to store this information. This would allow you to identify how much of each item the store was holding.					
	item the store was holding. Using pseudocode or a programming language of your choice write a program that will check					

As the code will be very large for this project each member of the programming team will be responsible for creating a separate part of the program. You have been assigned the part of the program that is responsible for setting users passwords. The following piece of pseudo code is given to you									
							Line 1	REPEAT	
							Line 2	RECEIVE usersPassword FROM (STRING) KEYBOARD	
Line 3	RECEIVE usersPassword2 FROM (STRING) KEYBOARD								
Line 4	IF usersPassword <> usersPassword2 THEN SEND <error_message> TO DISPLA</error_message>	Y							
Line 5	UNTIL usersPassword = usersPassword2								
In a prodesign.	gramming language you are familiar with write the code required to implement the above								
	free to make up meaningful variable names.								