Assignment 2 Marks

Name:									
Assignment Solution	<i>75</i>	/	<i>75</i>	Performance Requirements					
User Interface Class	5	/	5	program properly uses the provided UserInterface class					
			•	Used for all input to the program					
			•	If required methods have been added to extend the provided services of the class					
				 Methods match the style and purpose of the class. 					
Proper use of main	5	/		proper use of instantiated objects					
				Program is launched with a static main method in an appropriately named class					
_				All significant processing is performed in instantiated objects					
Loading and holding data	12	/	12						
			•	File name is retrieved from the first command line argument					
				 Proper error checking to confirm the file name 					
				A proper error message and proper program termination					
				 System.exit() is not allowed 					
			•	File has been properly opened					
				Basic error checking if the file does not exist on the system					
				(as shown in class examples)					
			•	Input of question information from the file					
				Number of questions read in					
				Array set up to store information using the number of questions read in					
				Loop to read in all questions Page 1 in factor of the provided bands of the dead of the second					
				 Proper information for a question loaded and stored into a Question object 					
				·					
				Object has been stored into an array All information has been leaded from the file into an array of chiests.					
				 All information has been loaded from the file into an array of objects before the game starts 					
				Basic file error checking					
			_	Handles case of expected line is missing					
				Handles case of the Points, answer, number-of-answers missing					
☐ Trivia Game Play	36	,	36	Some marks in this section include design of how you accomplished the task					
B Trivia Game Flay	1	,	1	☐ Program starts up in the main					
	3	,	3	☐ Questions have been presented in the proper order (as retrieved from the file)					
	3	,	3	for the entire game.					
	1	/	1	☐ Questions presented one at a time					
	4	,	4	☐ Proper header printed above each question					
	-	,		 The current question number 					
				 The total number of questions 					
				 The possible points for the question 					
				The user's current score.					
	3	/	3	☐ Question presented to the user with all possible choices					
				(including skip and quit)					
	3	/	3	☐ User can enter choice for their answer or to skip or quit					
				(error checking also done for wrong values)					
	6	/	6	☐ Proper verification of answer from the user					
				If they got it wrong or right (message displayed)					
				 All stats properly updated 					
				Steps to the next question					
	5	/	5	☐ Skip question works properly in all cases (including final stats)					
	5	/	5	☐ Quit game works properly in all cases (including final stats)					
	5	/	5	$\hfill\Box$ Ends the game automatically once they have finished the last question					
				(even if they skip the last question)					
Trivia Game Flow	10	/	10	Feedback on the quality of the game play code. Points considered:					
				Division of tasks, The flow of method calls in the program					
Comment:				(Do they make sense), are they clearly defined tasks that are, Is it a clean design?					
				This value gives a ranking of your overall design.					
				(You can convert it to a percentage and look to the chart on the first page					
				to see where your program flow lands)					

Comp 1502 F15

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☐ Final Game Statistic	cs	4	/	4	
			,		☐ Clean nice output with labels making it clear what information the user is seeing
					☐ All stats have been properly calculated
					☐ The final score /points the user received (would be nice to have the
					total number of points possible as well)
					☐ The total number of questions answered correctly is displayed
					☐ The total number of questions skipped is displayed
					☐ Presented before the program exits
					(after the finish of a game or the user has selected to quit)
User Interaction		3	/	3	
					☐ Output
					 Meaningful messages and output given to the user
					 Nicely formatted output with clear labels for the user to understand
					 Proper error messages for incorrect actions the user does
					or failures in the program.
Code Design		<i>25</i>	/	<i>25</i>	Quality and Readability Requirements
☐ Readability		5	/	5	
				• (overall, code is clear and concise
				■ a	Il identifier names are self-documenting and follow course naming conventions
				• 	nard-coded magic number literals are avoided in favour of named constants
					best declared at the top of a class in all capitals
				■ a	Il code is correctly and consistently indented
				■ a	Il code is formatted to enhance readability; white space is inserted around
					logically-related code blocks
				• t	ricky or less obvious sections of code are accompanied by short clarifying
					comments, as appropriate (this will be weighted heavier for marks)
Design		20	/	20	Design and other concerns
		10	/	10	clearly-identifiable subtasks are delegated to clearly-named helper methods
					 Avoidance of large over complicated methods
					Avoidance of too simple of methods where they are not really needed
					(one line methods that are only called once)
					 code duplication is avoided; algorithms needed more than once are placed
					in helper methods that are called as needed
		3	/	3	proper use of methods in the class
					(3 = good, 2 = needs work, 1 = needs a lot of work)
					 includes parameter passing and returning information from a method
		2	,	2	(only use instance varaibles when they are needed in >1 method) ☐ proper choice of which methods are in each class
		2	/	2	(2 = good, 1 = needs work, 0 = needs a lot of work)
					 Should make sense based upon what the class is supposed to represent
					(its responsibilities)
		1	/	1	☐ all methods are marked public or private, as appropriate
		1	/	1	☐ all instance variables are marked private
			•		(missing even one will result in zero for this mark)
		3	/	3	☐ Choice of instance variables versus local variables is appropriate. Does it make sense for the lifetime of the class it is declared in. Could it have been a
					local variable in each method it is used in. Could it have been a parameter or return from
					method instead. (3 = good, 2 = needs work, 1 = needs a lot of work)
Subtotal		100	/	10	0
Deductions			,		Use of static key word other than for the main method (up to -20 marks)
					-1 for every instance variable not marked private (Max of 5 marks taken off)
					-1 for every instance variable not marked private (Max of 5 marks taken on) -1 for very helper method that is not marked private (Max of 5 marks off)
					- 30% if program uses ArrayList instead of Array
					-3 program does not format all decimal values outputted to 1 decimal places
					Other:
TOTAL		100	1	10	
	Marl	5.0	1,	5	U
	Mark	3.0	/	3	
Comments:					