3 Ejaz is creating a program that will allow the user to create quizzes. He is using object-oriented programming (OOP).

There are two classes: QuestionClass and QuizClass.

The class attributes and methods are in the following tables. All attributes are declared as private.

QuestionClass		
Question : STRING	// stores the question	
Answer : STRING	// stores the correct answer	
Difficulty: INTEGER	<pre>// stores the difficulty as an integer // from 0(easy) to 10(hard)</pre>	
Constructor(QuestionP, AnswerP, DifficultyP)	<pre>// creates an instance of QuestionClass // sets the attributes to the parameter // values</pre>	
GetQuestion()	// returns the question //	
GetDifficulty()	returns the difficulty level	
GetAnswer()	// returns the answer	
QuizClass		
Questions : ARRAY[0:19] OF QuestionClass		<pre>// stores maximum 20 questions of // type QuestionClass</pre>
NumberOfQuestions : INTEGER		<pre>// stores the number of questions // in this quiz</pre>
Constructor()		<pre>// creates an instance of // QuizClass // initialises NumberOfQuestions // to 0</pre>
AddQuestion()		<pre>// adds the parameter question to // the array // increments NumberOfQuestions</pre>
GetQuestion()		<pre>// returns the next question to be // asked</pre>
CheckAnswer()		<pre>// takes an answer as a parameter // and returns TRUE if correct</pre>

(a) Write program code to define the class QuizClass. You are only required to write code for the attribute declarations and constructor.

If you are writing in Python, include attribute declarations using comments.

Use your programming language's constructor method.

(b) The QuizClass method AddQuestion() takes a question object as a parameter and stores it in the next available location in the array Questions. It returns TRUE if it is successfully stored, and FALSE otherwise.

Write program code for the method AddQuestion().

(c) The first quiz is created with the identifier FirstQuiz.

The first question in this quiz is: "What is 100 / 5?".

The answer is "20" and the difficulty level is 1.

Write **program code** to:

- declare an instance of QuizClass with the identifier FirstQuiz declare an instance of QuestionClass with the identifier Ouestion1
- add Question1 to the array in FirstQuiz using AddQuestion().