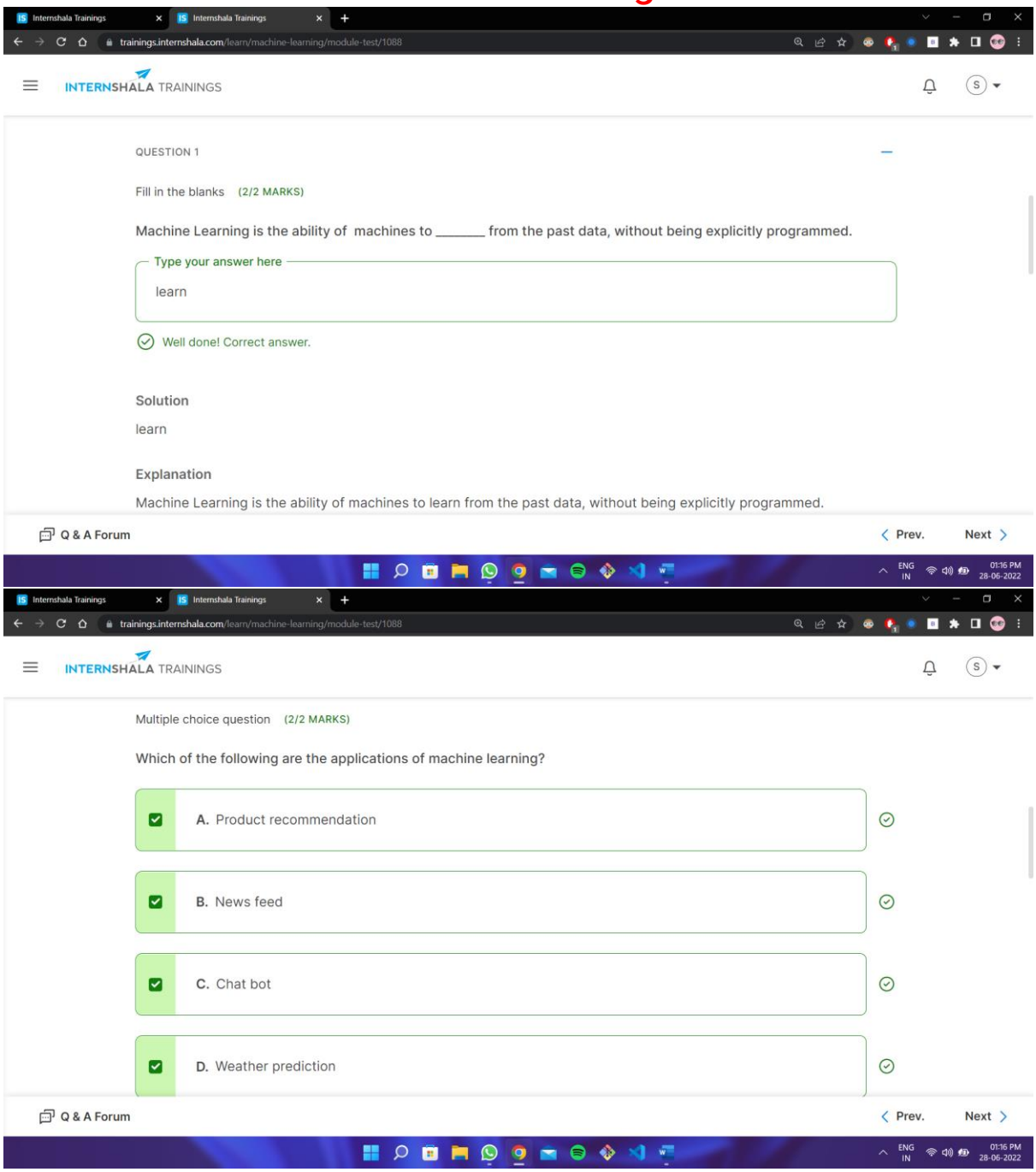
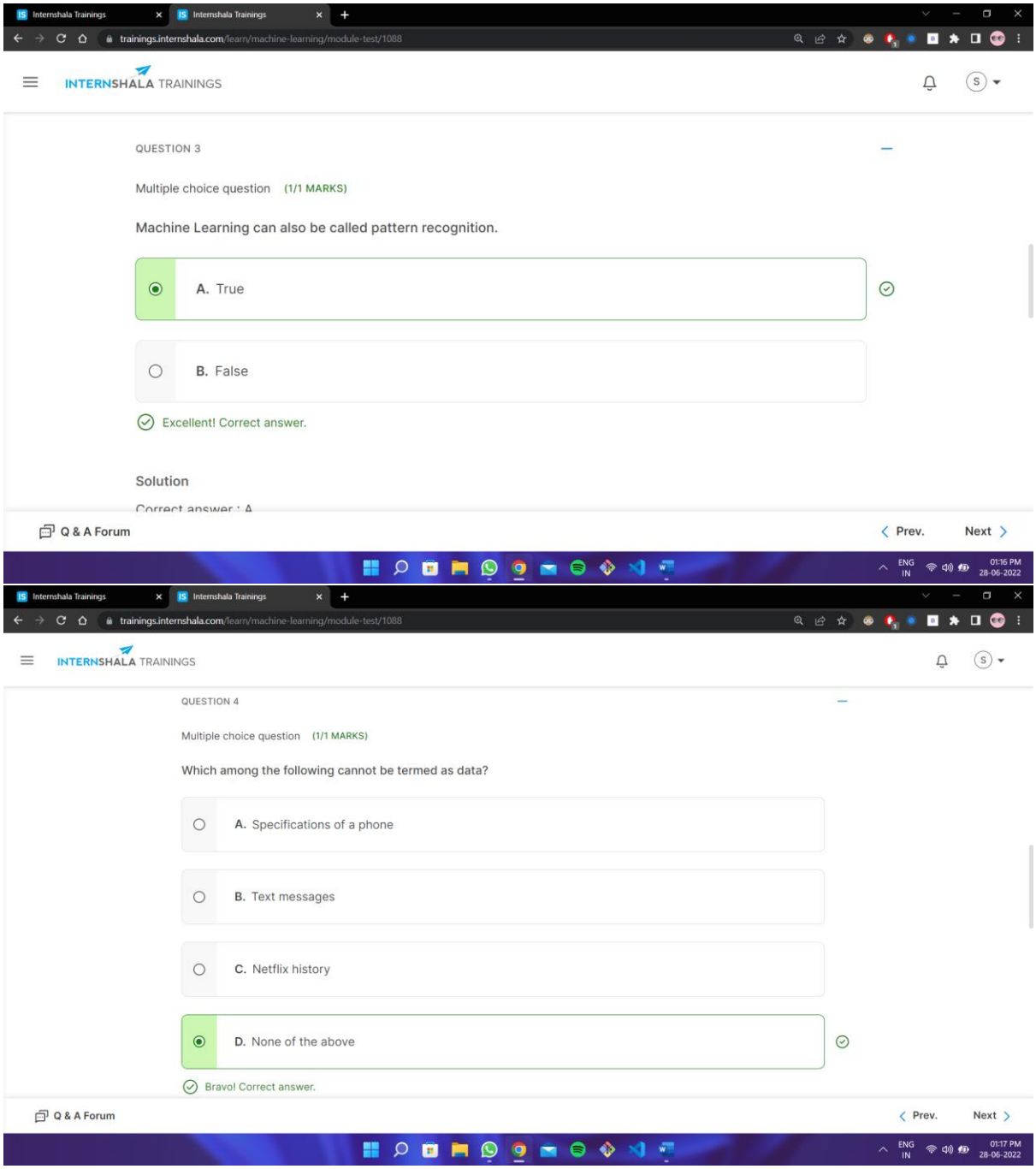
Introduction to Machine Learning and Types of Data in used in Machine Learning

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QUESTION 3
Multiple choice question (1/1 MARKS)
Machine Learning can also be called pattern recognition.
A. True
B. False
Excellent! Correct answer.
Solution
Correct answer : A
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QUESTION 4
Multiple choice question (1/1 MARKS)
Which among the following cannot be termed as data?
A. Specifications of a phone
B. Text messages
C. Netflix history
D. None of the above
Bravo! Correct answer.
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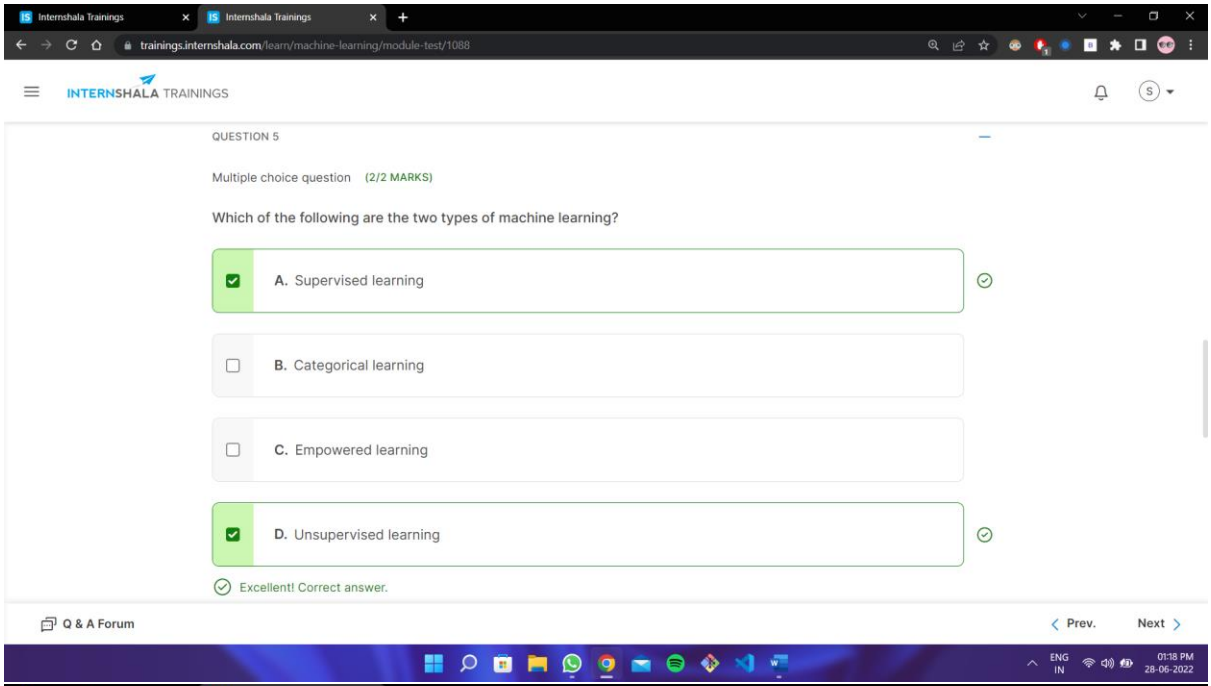
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QUESTION 5
Multiple choice question (2/2 MARKS)
Which of the following are the two types of machine learning?
A. Supervised learning
B. Categorical learning
C. Empowered learning
D. Unsupervised learning
Excellent! Correct answer.
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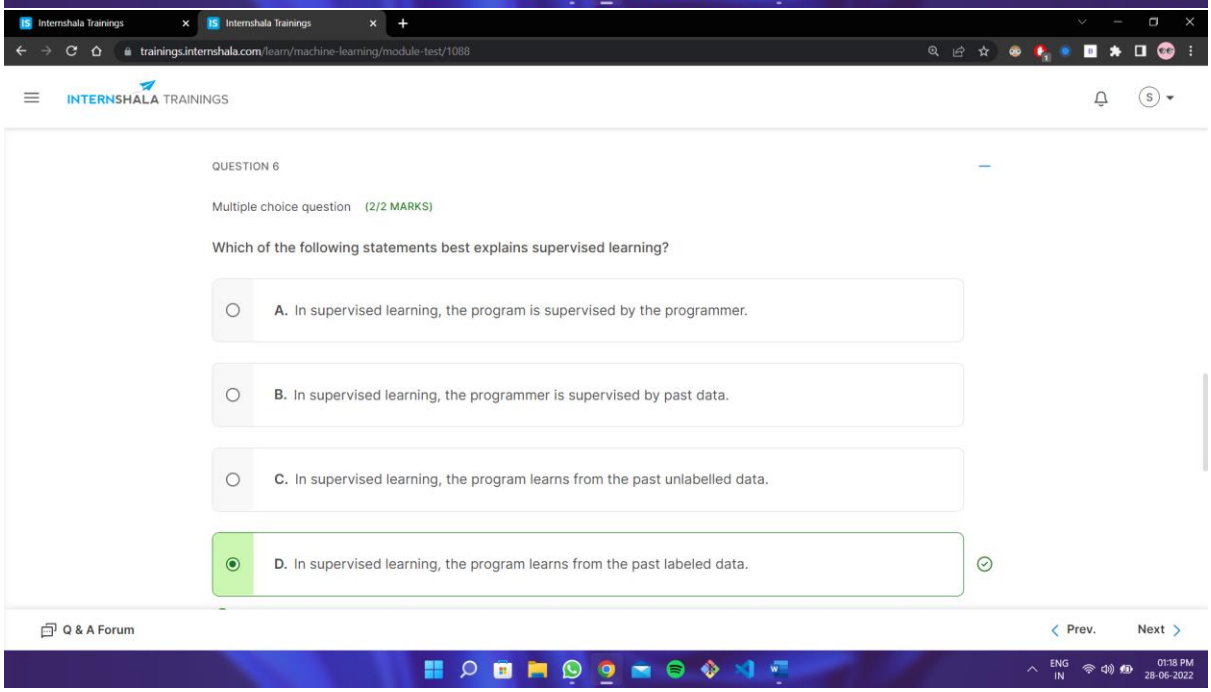
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QUESTION 6
Multiple choice question (2/2 MARKS)
Which of the following statements best explains supervised learning?
A. In supervised learning, the program is supervised by the programmer.
B. In supervised learning, the programmer is supervised by past data.
C. In supervised learning, the program learns from the past unlabelled data.
D. In supervised learning, the program learns from the past labeled data.
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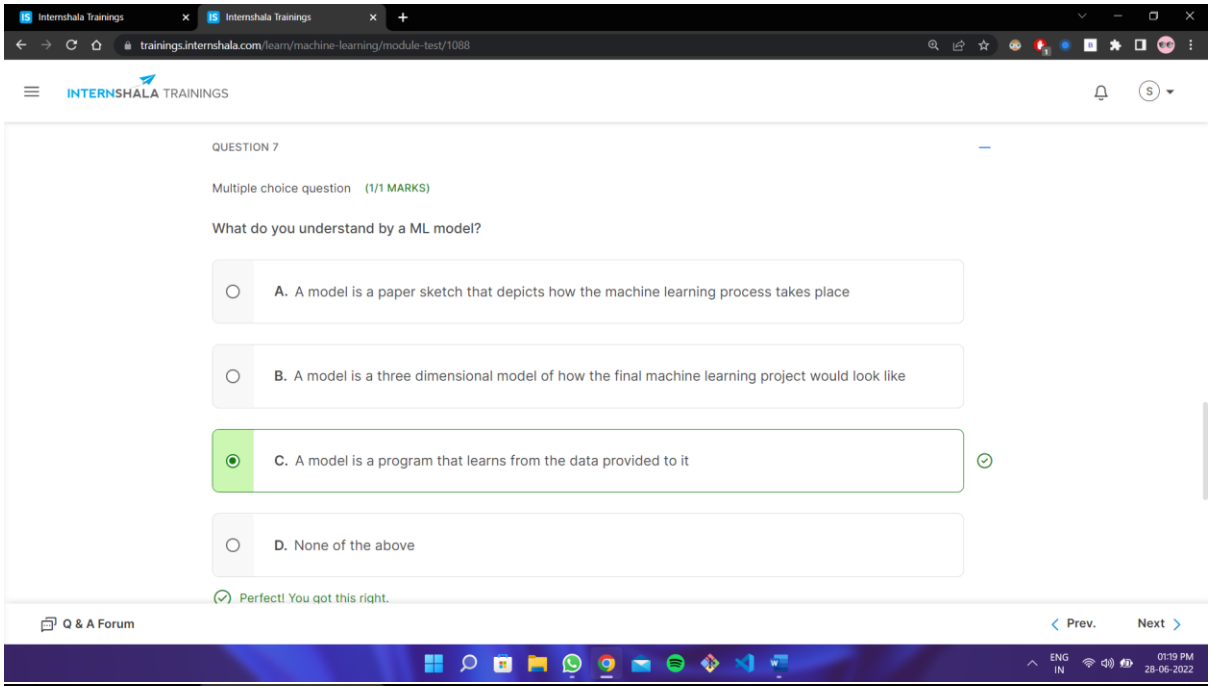
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QUESTION 7
Multiple choice question (1/1 MARKS)
What do you understand by a ML model?
A. A model is a paper sketch that depicts how the machine learning process takes place
B. A model is a three dimensional model of how the final machine learning project would look like
C. A model is a program that learns from the data provided to it
D. None of the above
Perfect! You got this right.
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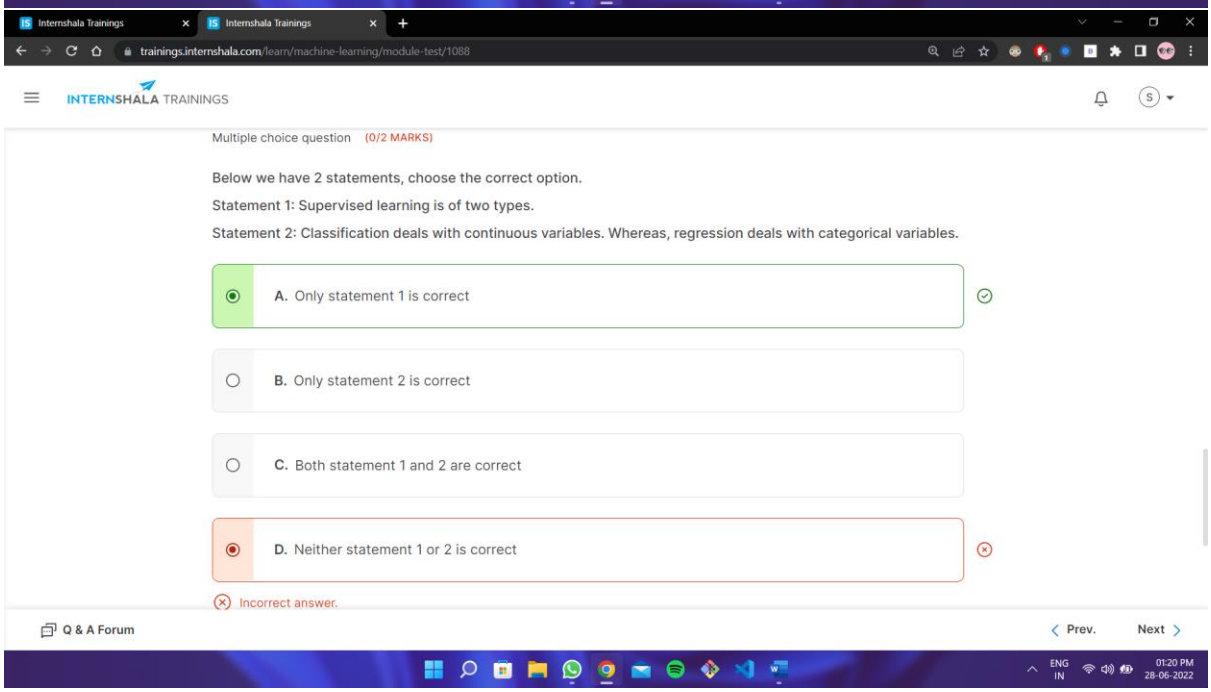
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Multiple choice question (0/2 MARKS)
Below we have 2 statements, choose the correct option.
Statement 1: Supervised learning is of two types.
Statement 2: Classification deals with continuous variables. Whereas, regression deals with categorical variables.
A. Only statement 1 is correct
B. Only statement 2 is correct
C. Both statement 1 and 2 are correct
D. Neither statement 1 or 2 is correct
Incorrect answer.
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QUESTION 1

Multiple choice question (1/1 MARKS)

A variable generally represents one characteristic of the data, but it may also represent the complete data in some situations.

- A. True ✓
- B. False

Bravo! Correct answer.

Solution

Correct answer : A

Your answer : A

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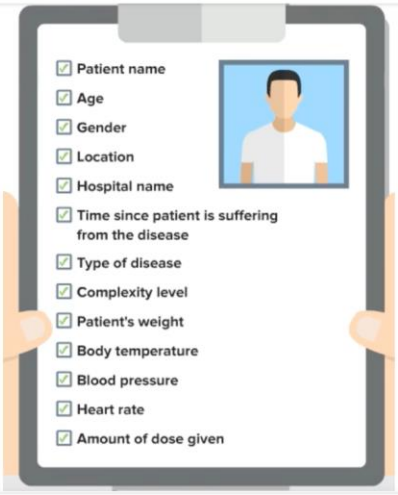

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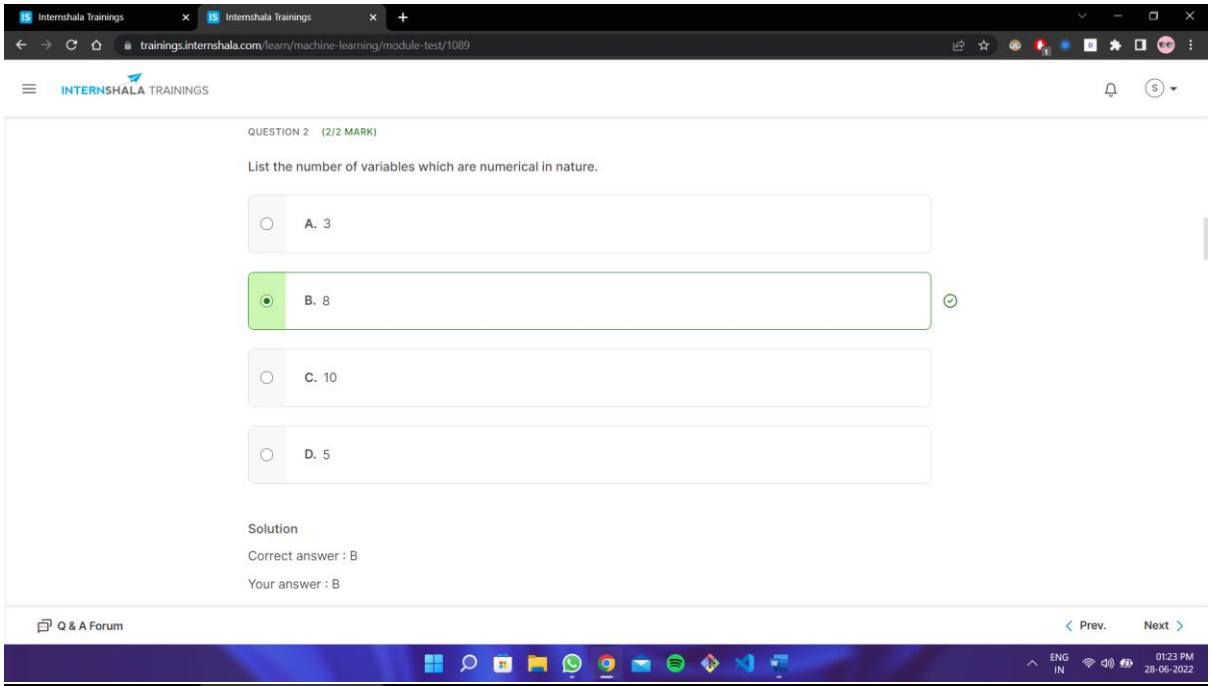
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QUESTION 2 (2/2 MARK)
List the number of variables which are numerical in nature.
A. 3
B. 8
C. 10
D. 5
Solution
Correct answer : B
Your answer : B
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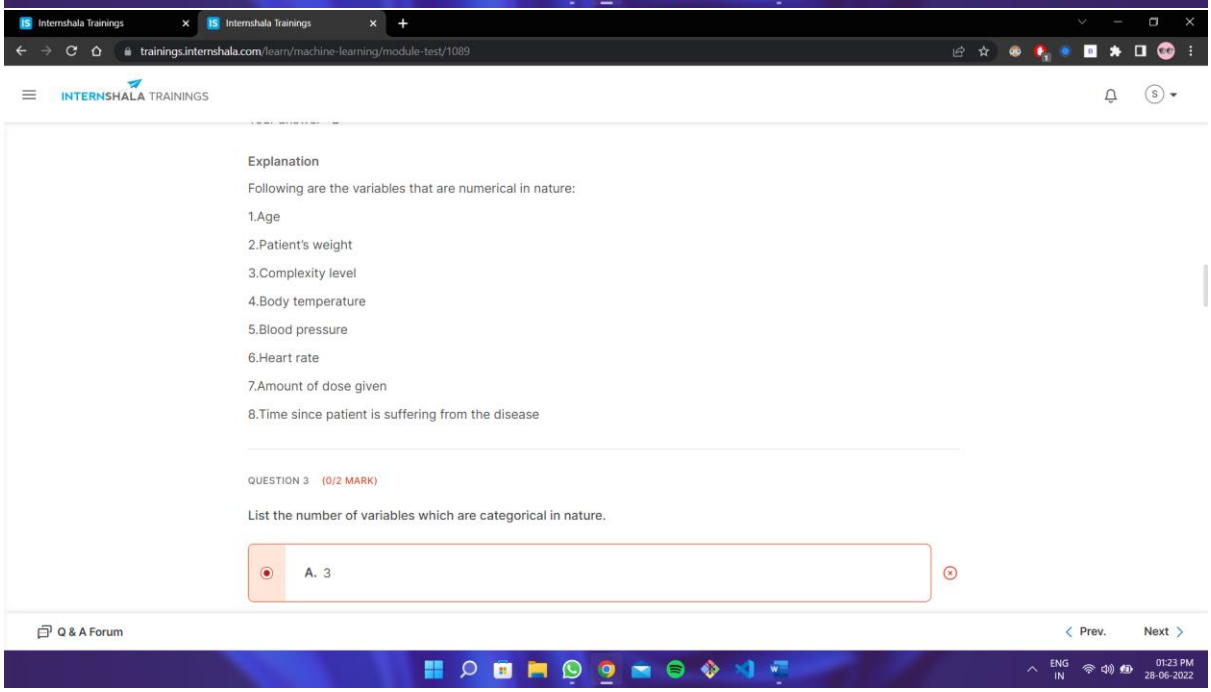
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Explanation
Following are the variables that are numerical in nature:
1.Age
2.Patient's weight
3.Complexity level
4.Body temperature
5.Blood pressure
6.Heart rate
7.Amount of dose given
8.Time since patient is suffering from the disease
QUESTION 3 (0/2 MARK)
List the number of variables which are categorical in nature.
A. 3
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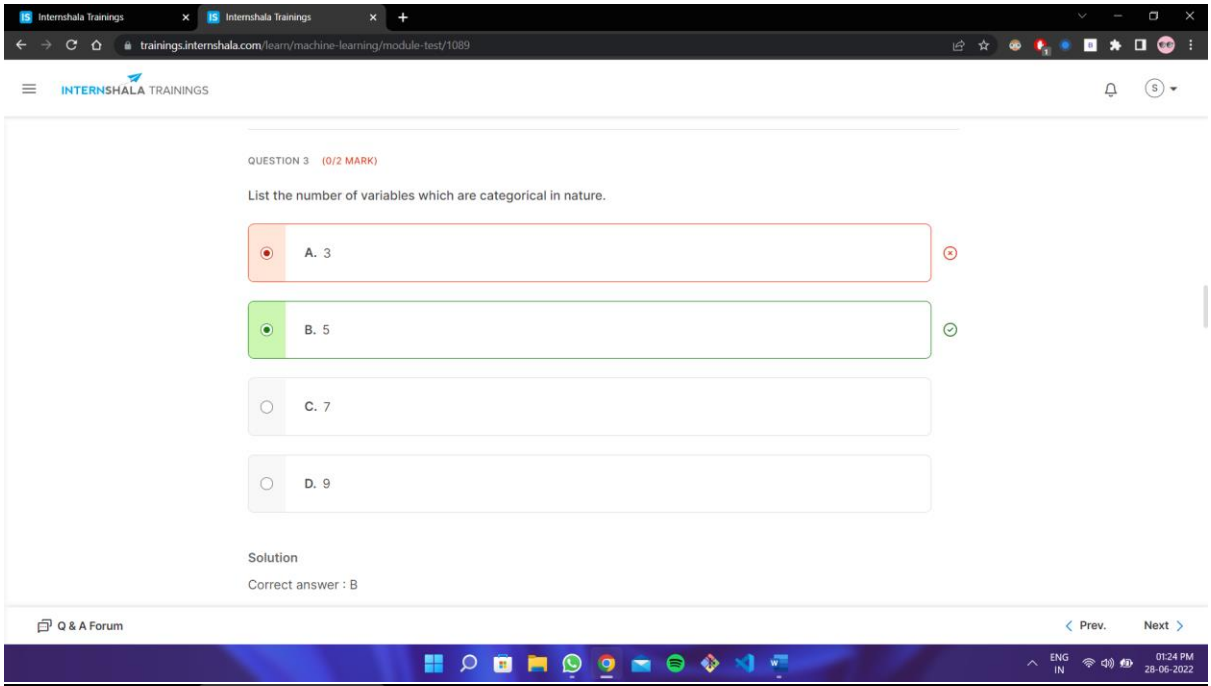
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QUESTION 3 (0/2 MARK)
List the number of variables which are categorical in nature.
A. 3
B. 5
C. 7
D. 9
Solution
Correct answer : B
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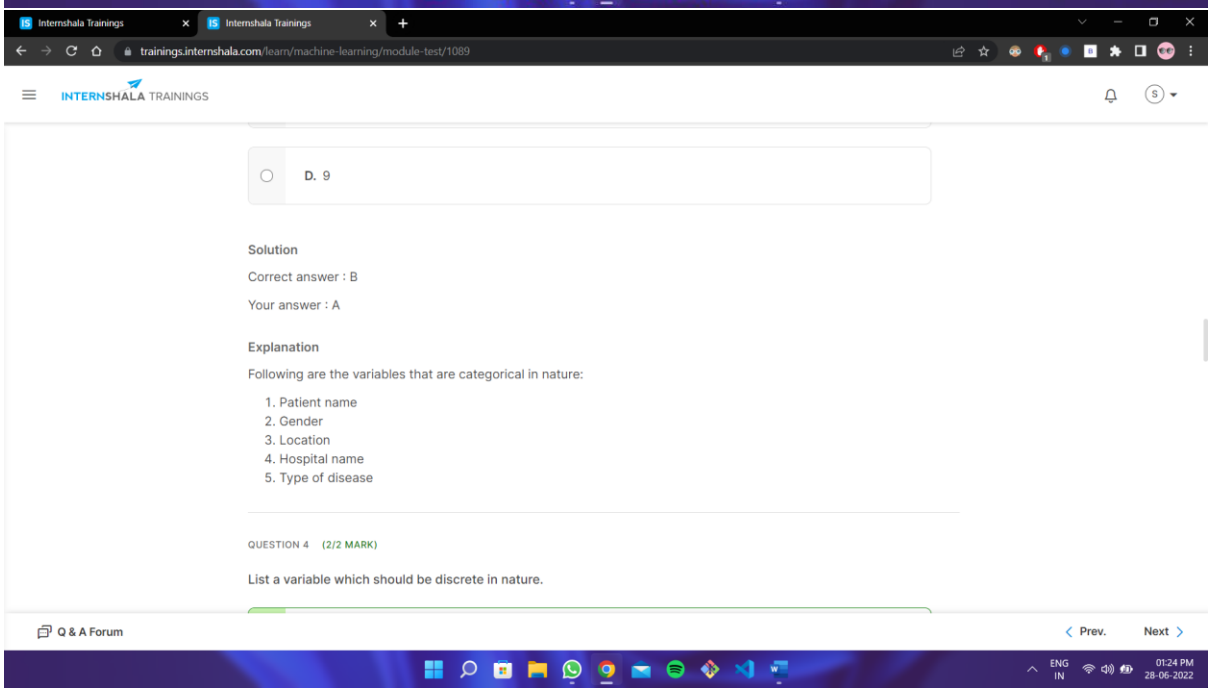
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D. 9
Solution
Correct answer : B
Your answer : A
Explanation
Following are the variables that are categorical in nature:
1. Patient name
2. Gender
3. Location
4. Hospital name
5. Type of disease
QUESTION 4 (2/2 MARK)
List a variable which should be discrete in nature.
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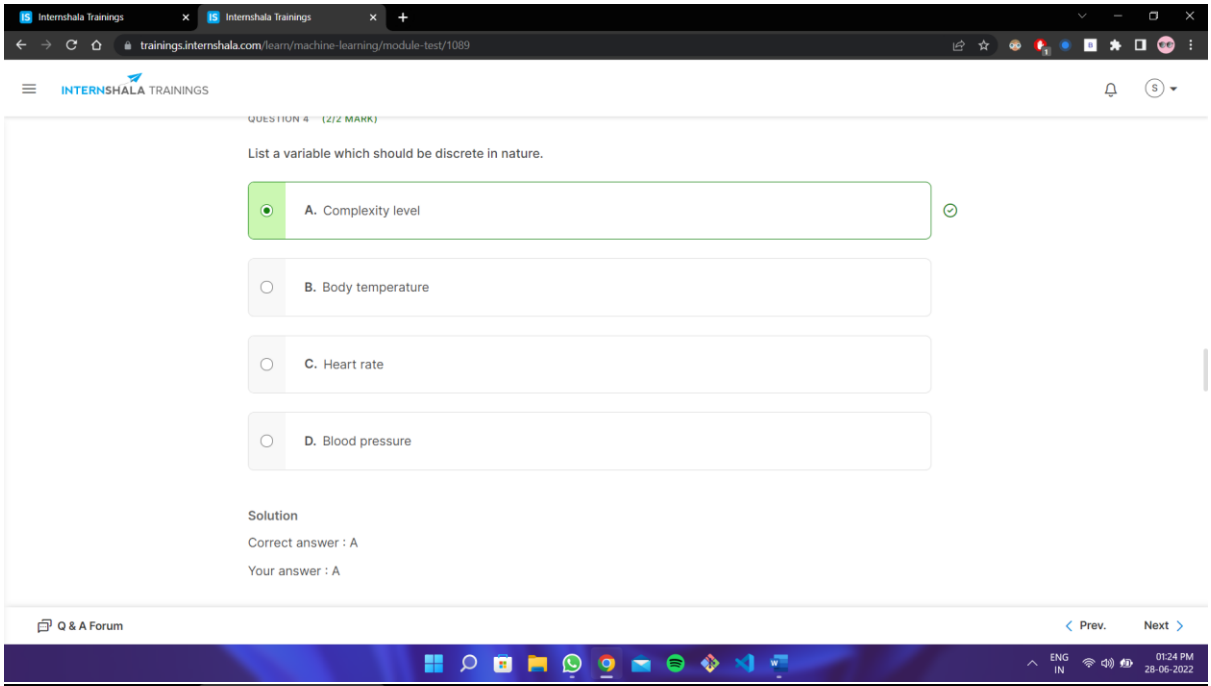
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QUESTION 4 (2/2 MARK)
List a variable which should be discrete in nature.
A. Complexity level
B. Body temperature
C. Heart rate
D. Blood pressure
Solution
Correct answer : A
Your answer : A
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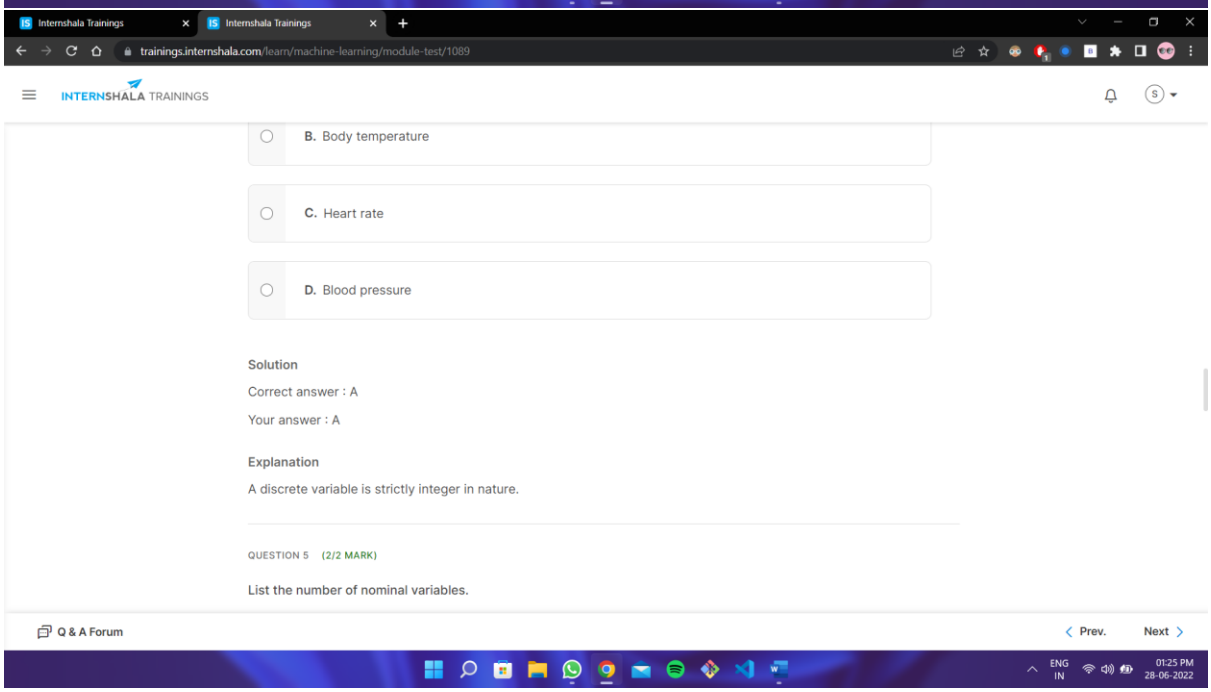
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B. Body temperature
C. Heart rate
D. Blood pressure
Solution
Correct answer : A
Your answer : A
Explanation
A discrete variable is strictly integer in nature.
QUESTION 5 (2/2 MARK)
List the number of nominal variables.
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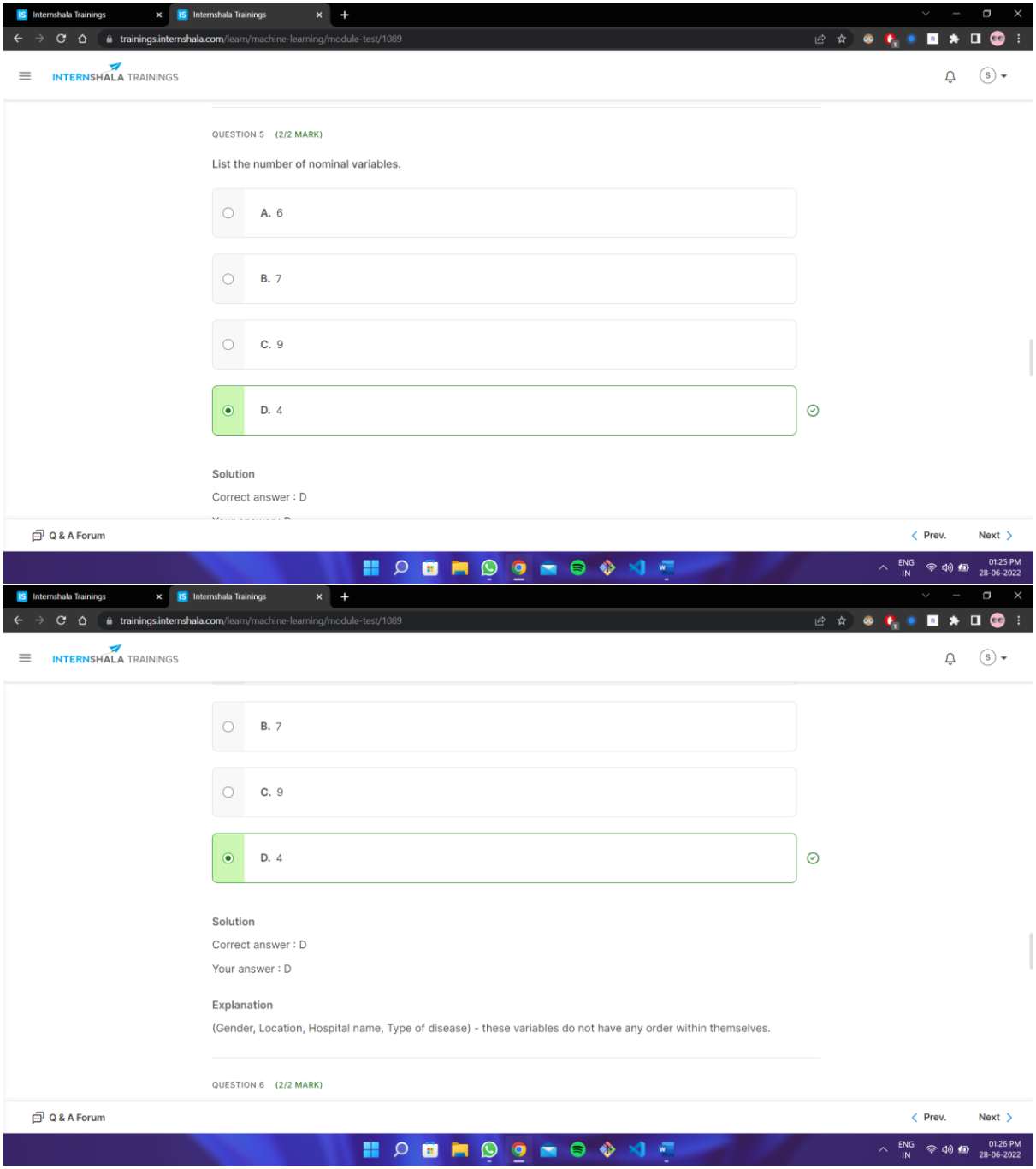
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QUESTION 5 (2/2 MARK)
List the number of nominal variables.
A. 6
B. 7
C. 9
D. 4
Solution
Correct answer : D
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B. 7
C. 9
D. 4
Solution
Correct answer : D
Your answer : D
Explanation
(Gender, Location, Hospital name, Type of disease) - these variables do not have any order within themselves.
QUESTION 6 (2/2 MARK)
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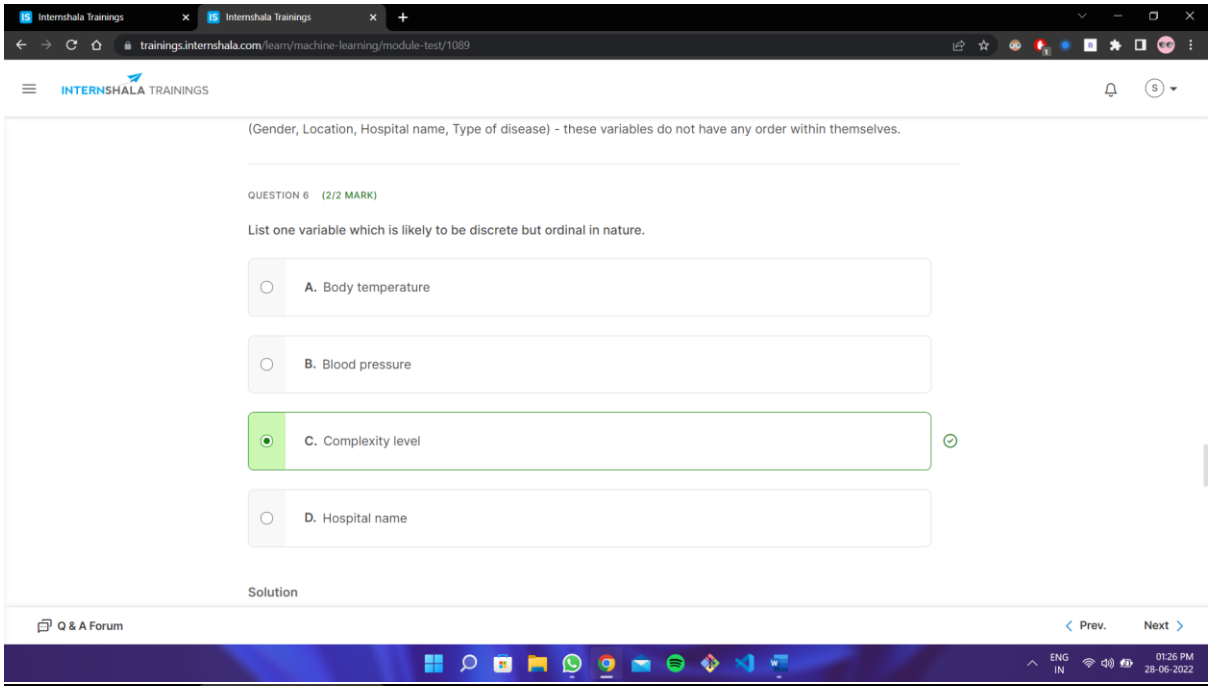
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(Gender, Location, Hospital name, Type of disease) - these variables do not have any order within themselves.
QUESTION 6 (2/2 MARK)
List one variable which is likely to be discrete but ordinal in nature.
A. Body temperature
B. Blood pressure
C. Complexity level
D. Hospital name
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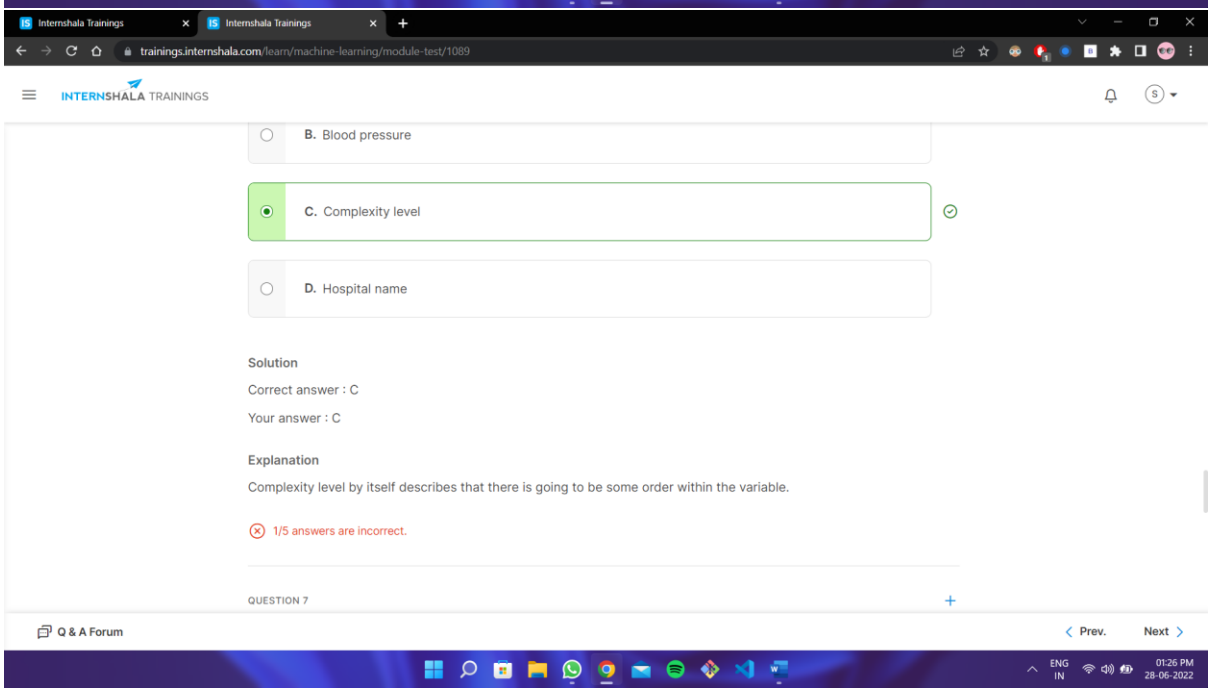
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B. Blood pressure
C. Complexity level
D. Hospital name
Solution
Correct answer : C
Your answer : C
Explanation
Complexity level by itself describes that there is going to be some order within the variable.
1/5 answers are incorrect.
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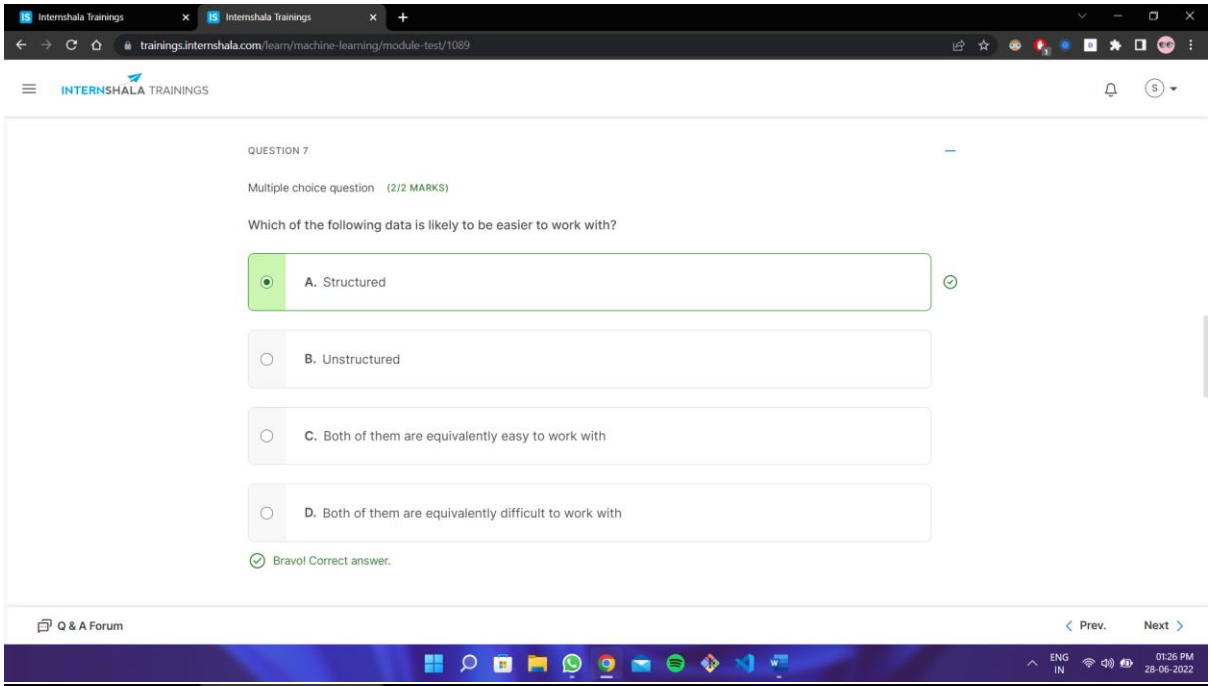
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QUESTION 7
Multiple choice question (2/2 MARKS)
Which of the following data is likely to be easier to work with?
A. Structured
B. Unstructured
C. Both of them are equivalently easy to work with
D. Both of them are equivalently difficult to work with
Bravo! Correct answer.
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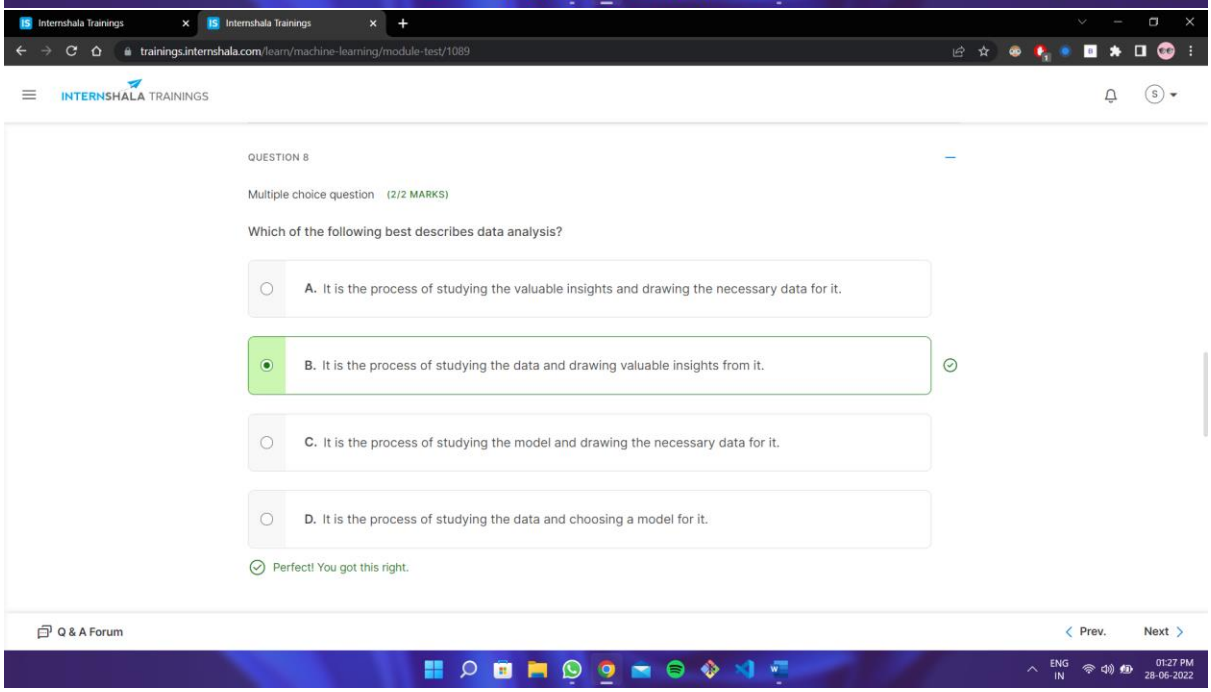
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QUESTION 8
Multiple choice question (2/2 MARKS)
Which of the following best describes data analysis?
A. It is the process of studying the valuable insights and drawing the necessary data for it.
B. It is the process of studying the data and drawing valuable insights from it.
C. It is the process of studying the model and drawing the necessary data for it.
D. It is the process of studying the data and choosing a model for it.
Perfect! You got this right.
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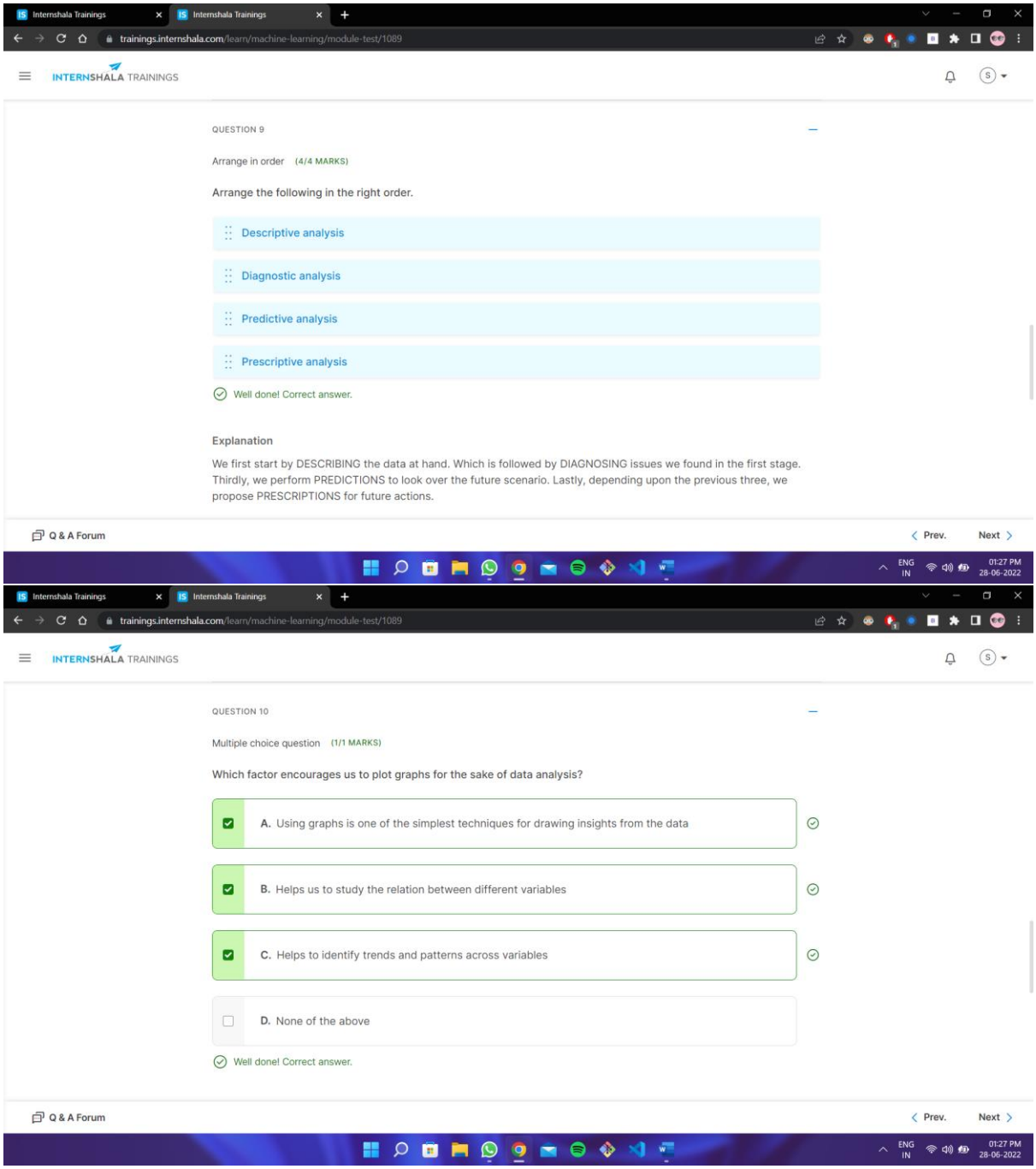
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QUESTION 9
Arrange in order (4/4 MARKS)
Arrange the following in the right order.
Descriptive analysis
Diagnostic analysis
Predictive analysis
Prescriptive analysis
Well done! Correct answer.
Explanation
We first start by DESCRIBING the data at hand. Which is followed by DIAGNOSING issues we found in the first stage. Thirdly, we perform PREDICTIONS to look over the future scenario. Lastly, depending upon the previous three, we propose PRESCRIPTIONS for future actions.
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QUESTION 10
Multiple choice question (1/1 MARKS)
Which factor encourages us to plot graphs for the sake of data analysis?
A. Using graphs is one of the simplest techniques for drawing insights from the data
B. Helps us to study the relation between different variables
C. Helps to identify trends and patterns across variables
D. None of the above
Well done! Correct answer.
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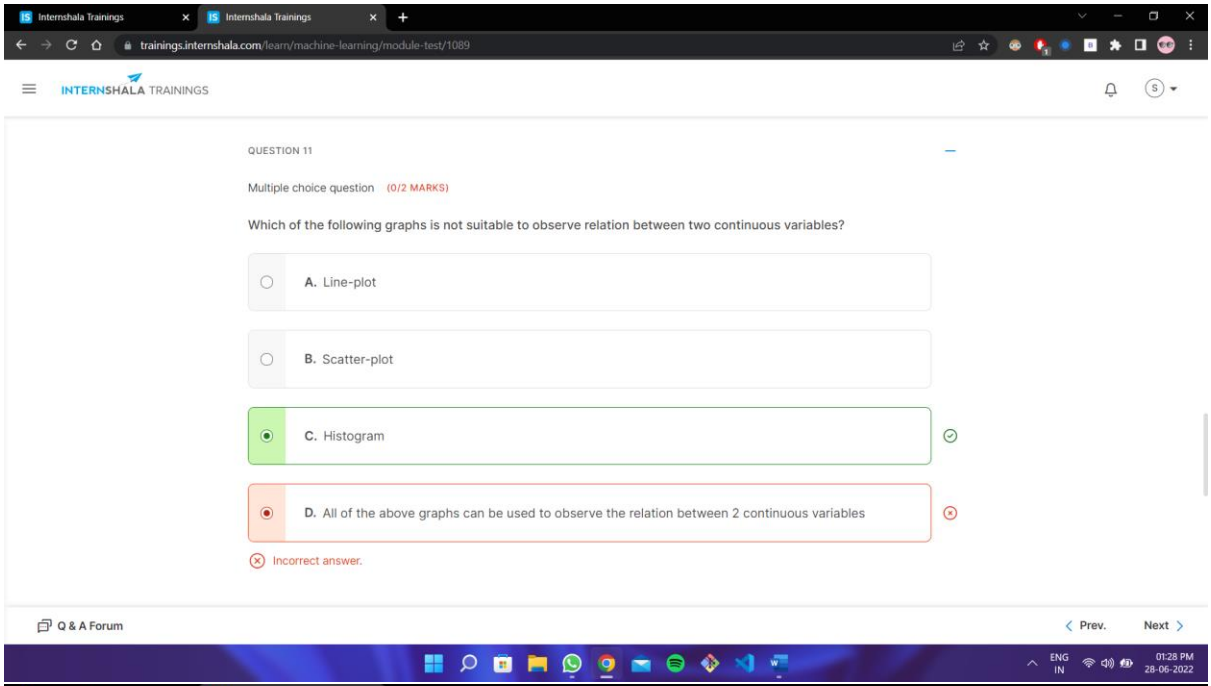
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QUESTION 11
Multiple choice question (0/2 MARKS)
Which of the following graphs is not suitable to observe relation between two continuous variables?
A. Line-plot
B. Scatter-plot
C. Histogram
D. All of the above graphs can be used to observe the relation between 2 continuous variables
Incorrect answer.
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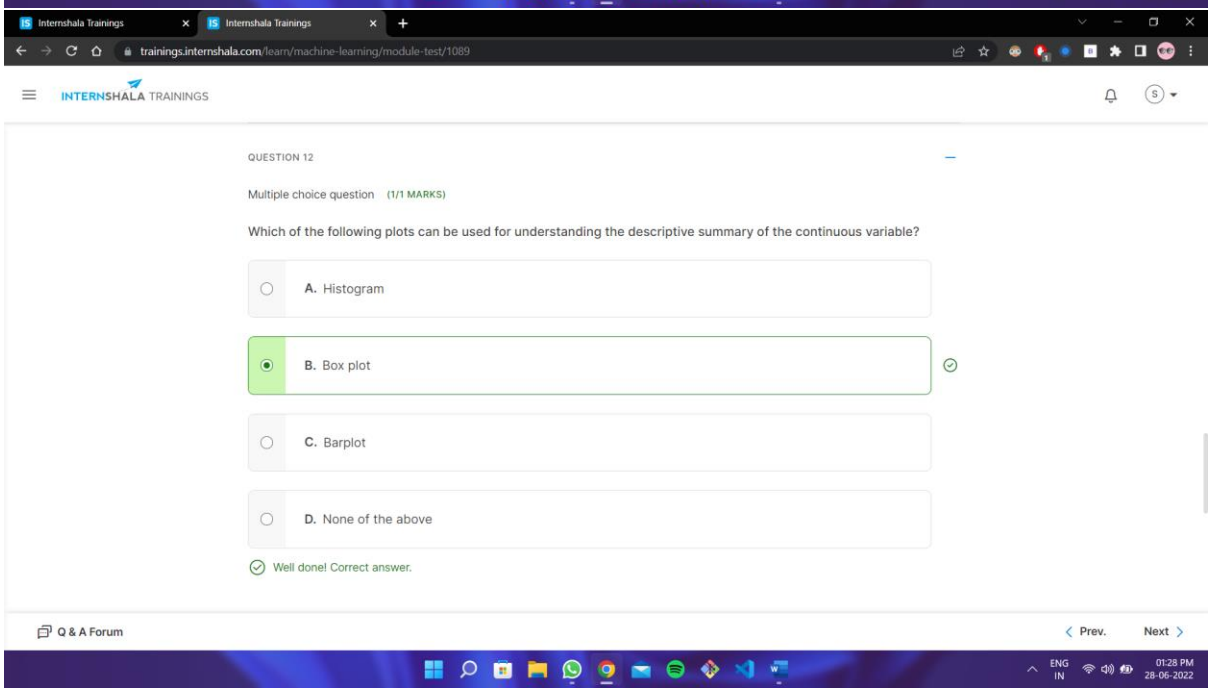
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QUESTION 12
Multiple choice question (1/1 MARKS)
Which of the following plots can be used for understanding the descriptive summary of the continuous variable?
A. Histogram
B. Box plot
C. Barplot
D. None of the above
Well done! Correct answer.
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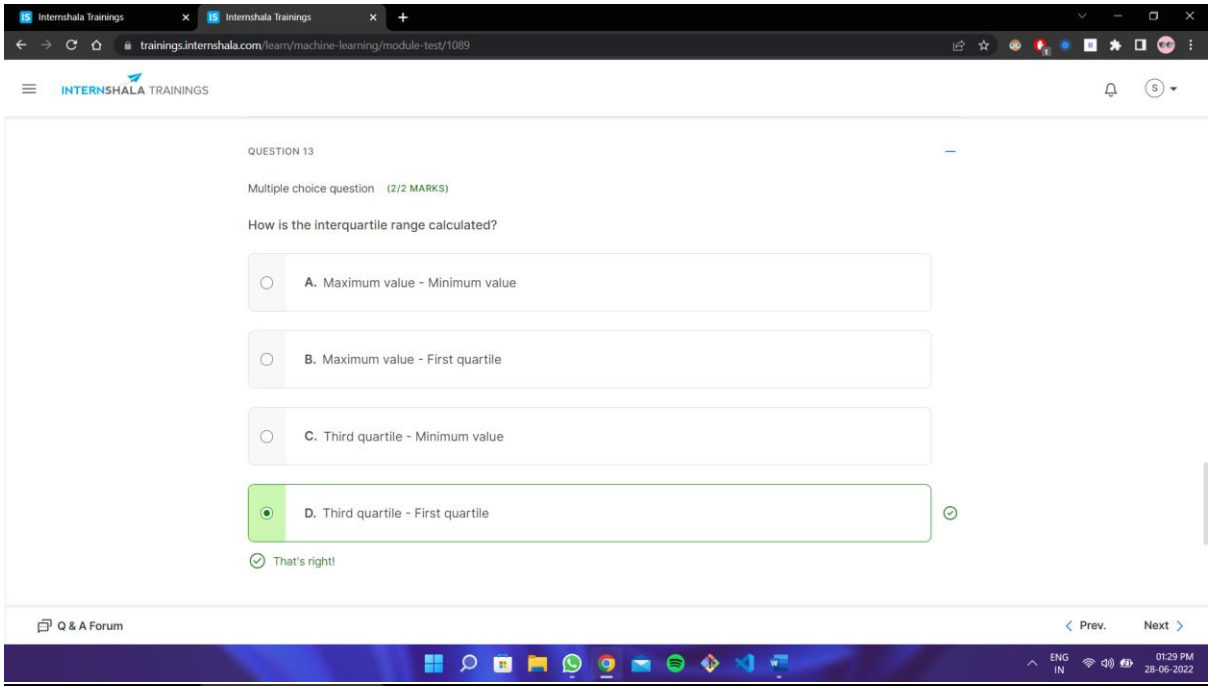
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QUESTION 13
Multiple choice question (2/2 MARKS)
How is the interquartile range calculated?
A. Maximum value - Minimum value
B. Maximum value - First quartile
C. Third quartile - Minimum value
D. Third quartile - First quartile
That's right!
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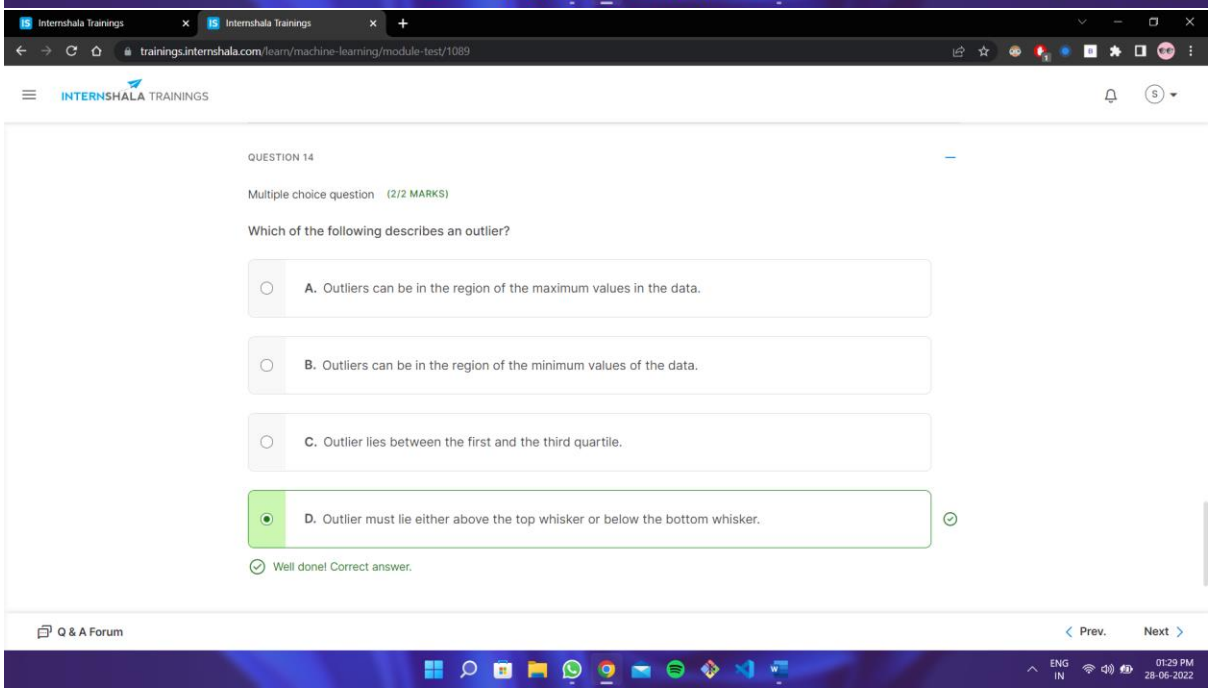
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QUESTION 14
Multiple choice question (2/2 MARKS)
Which of the following describes an outlier?
A. Outliers can be in the region of the maximum values in the data.
B. Outliers can be in the region of the minimum values of the data.
C. Outlier lies between the first and the third quartile.
D. Outlier must lie either above the top whisker or below the bottom whisker.
Well done! Correct answer.
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