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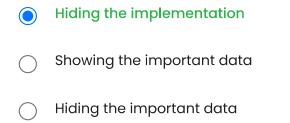   Lab   affiliate   Fame

OOPS quiz   6 out of 6 correct

1. Which among the following best defines abstraction?

   🔘 **Hiding the implementation**

   ⚪ Showing the important data

   ⚪ Hiding the important data

   ⚪ Hiding the implementation and showing only the features

   Explanation: It includes hiding the implementation part and showing only the required data and features to the user. It is done to hide the implementation complexity and details from the user. And to provide a good interface in programming.

2. class is ___ abstraction.

   ⚪ Object

   🔘 **Logical**

   ⚪ Real

   ⚪ Hypothetical

   Explanation: Class is logical abstraction because it provides a logical structure for all of its objects. It gives an overview of the features of an object.

3. Which among the following can be viewed as combination of abstraction of data and code.

   🔘 **class**

○ object

○ inheritance

○ interfaces

Explanation: Class in object-oriented programming is a blueprint or template for creating objects. It defines the data (attributes or properties) and behavior (methods) that the objects created from that class will have. By combining abstraction of data and code, a class provides a way to group related data and functionality into a single, logical unit.

4. Encapsulation and abstraction differ as

○ Can be used any way

○ Hiding and Binding respectively

● **Binding and Hiding respectively**

○ Hiding and hiding respectively

Explanation: Encapsulation is data binding, as in, we try to combine a similar type of data and functions together.Abstraction is hiding the complex code.

5. Hiding the implementation complexity can

○ Provide better features

○ Make the programming complex

○ Provide more number of features

● **Make the programming easy**

Explanation: It can make programming easy. The programming need not know how the inbuilt functions are working but can use those complex functions directly in the program. It doesn't provide more number of features or better features.

6. Data abstraction is nothing but the combination of ....

○   hiding and showing

⊙   **abstract class and interface**

○   unnecessary information

○   none of the above

Explanation: data abstraction is nothing but the combination of abstract class and interface. We can not create the object in the abstract class and interface.

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