

OOPS

INTERVIEW QUESTIONS

PART-1

1. What is meant by term OOPS?

⇒ OOPS refers to the object-oriented programming. It is the programming paradigm that is defined using objects. Objects can be considered as real-world instances of entities like class, that have some characteristics and behaviours.

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2. What is the need for OOPS?

⇒ There are many reasons why OOPS is mostly preferred, but the most important among them are:-

* OOPS helps users to understand the software easily, although they don't know the actual implementation.

* With OOPS, the readability, understandability, and maintainability of the code increase multifold.

* Even very big software can be easily written and managed easily using OOPS.

3. What are some Major Object Oriented Programming languages?

⇒ The programming languages that use and follow the Object-Oriented Programming paradigm or OOPs, are known as Object-Oriented Programming languages. Some of the major Object-Oriented Programming languages are:-

- * Java
- * C++
- * JavaScript
- * Python
- * PHP

and many more.

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4. What is meant by Structured Programming?

⇒ Structured Programming refers to the method of programming which consists of a completely structured control flow. Here structure refers to a block, which contains a set of rules, and has a definitive control flow, such as (if/then/else), (While and for), block structures, and subroutines.

* Nearly all programming paradigm include Structured Programming

* Including the OOPs model.

5. What are the main features of OOPs?

⇒ OOPs or Object Oriented Programming mainly comprises of the below four features, and make sure you don't miss any of these:

- * Inheritance
- * Encapsulation
- * Polymorphism
- * Data Abstraction

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6. What are some advantages of using OOPs?

⇒ * OOPs is very helpful in solving very complex level of problems.

* Highly complex programs can be created, handled and maintained easily using object-oriented programming.

* OOPs promote code reuse, thereby reducing redundancy.

* OOPs also helps to hide the unnecessary details with the help of Data Abstraction.

* OOPs are based on a bottom-up approach, unlike the structural programming paradigm, which uses a top-down approach.

* Polymorphism offers a lot of flexibility in OOPs.

7. Why is OOPs so Popular?

⇒ OOPs Programming paradigm is considered as a better style of programming. Not only it helps in writing a complex piece of code easily, but it also allows user to handle and maintain them easily as well.

The main Pillar of OOPs - Data Abstraction, Encapsulation, Inheritance and Polymorphism, makes it easy for programmers to solve complex scenarios. As a result of these, OOPs is so popular.

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8. What is a class?

⇒ A class can be understood as a template or blueprint, which contains some values, known as member data or member, and some set of rules, known as behaviours defined in the class template. In

In the real world, an object is an real/actual entity to which a user interacts, whereas class is just the blueprint for that object.

So, the objects consume space and have some characteristic behaviour.

For example :- A specific car.

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