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1. Top 15 interview questions in class, object, constructor, method

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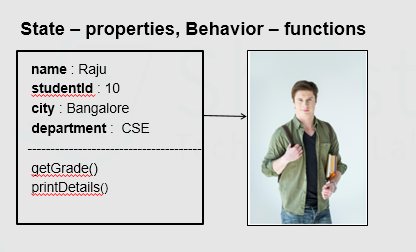
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Top 15 Interview Questions in class, object,constructor, method

In this blog lets discuss about the interview questions relevant to class, object,constructor, method

1. **What is an Object?**

Any real world entity is an object. ***eq. car, laptop, student, employee, pen.***  


An object has state, which is also called as properties. A student object has properties as name, studentId, city, phone,department.A car object has properties like model, brand, price.

An object can have behavior, which is called as methods. A student object can have methods as **printDetails(), getGrade()**. A car object can have methods like **getMileage(), printAccessories()**

1. **What is a Class?**

A class is a blueprint of an object. A class is a collection of objects with common properties , behavior , relationship and semantics. A collection of student object becomes a Student class and collection of car objects becomes Car class. An object is an instance of a class.  
  


1. **What are instance variables?**

The properties of an object are called instance variables. eg. A Student class can have instance variables as name, studentId. In case of the instance variable, the variable name is same but the values are different for every object.

1. **What is a static variable?**

A static variable is one, which is common to all the objects.Only one copy of the variable is available and shared by all the objects eg. A Student class can the **teacher name** as a static variable.  
In case of static variable, the value is same for all the objects. It can be called using classname.variablename

1. **What is a Constructor?**

A constructor is used to initialize the instance variables. It has the same name as that of the class and does not have a return type.

The syntax for the constructor is **access-specifier class-name**

**Example**



|  |  |
| --- | --- |
| 1  2  3 | public Student(){} |

1. **What is a default constructor?**

A default constructor is one without parameters

1. **Can a class have more than one constructor?**

Yes. A class can have more than one constructor taking different parameters. This concept is called [constructor overloading](https://www.shristitechlabs.com/java/interviewquestions/top-10-interview-questions-in-overloading/)

1. **What will happen if I have not added any constructor to my class?**

If you have not added any constructor, the compiler will add the default constructor automatically

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1. **Can a constructor be private?**

Yes. But you can create the object only in the same class.If needed the object can be returned using a static method.

1. **Show an example of constructor with and without parameters**

**Example**



|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16 | class Student{     String name;     int studentId; //instance variables     //default constructor     public Student(){        this.name = "Ram";        this.studentId= 123;      }     //parameterised constructor     public Student(String name, int studentId){       this.name = name;       this.studentId= studentId;    }  } |

1. **What will be in the first line of any constructor?**

The first line of any constructor will have either [this()](https://youtu.be/GcF9QT3_Yhg) or super() keyword.

1. **How will you create an object?**

Use the new keyword to create an object. The new keyword() is used to allocate memory.  
**Example**  
**Student student = new Student();**  
   where **new Student()** is the object,  
     **student** is just a reference variable pointing to a student object.

1. **What is a method?**

The methods are operations done on that object. It can be with or without return type and with or without parameter. The syntax for a method is **access-specifier return-type method-name(parameter-list)**Example



|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8 | int calcSum(int a, int b){       return a+b;     }    void printDetails(String name){       System.out.println("Welcome "+name);  } |

1. **What will happen if the instance variable name and the local variable name are same?>**

In this case the local variable hides the instance variable. the instance variable will take the default values of the data type. Use ‘this’ keyword to prevent it



|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10 | public class Student{  String name;  int studentId;  public Student(String name, int studentId) {  this.name= name;  this.studentId= studentId;  }  } |

1. **What is the meaning of this keyword?**

**‘this’** refers to the current object.

To learn about the top questions and answers in overloading click [here](https://www.shristitechlabs.com/java/interviewquestions/top-10-interview-questions-in-overloading/)

Happy Learning

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