Backend and Database Development

13 classes

Day 3 : 24 Apr 2024

Java Technologies

Run time polymorphism :

Method Overriding : the method have same name and same method signature(number of parameter list, type of parameter list and return type must be same). To achieve method overriding we need inheritance concept.

annotation : annotation is known as meta-data. Meta -data means data about data. Java provided lot of pre defined annotation as well as we can create custom annotation.

Some annotation we can use on class level, method level or property level etc.

All annotation start with pre fix @ followed by name of annotation.

@Override : this annotation we can use on method level of sub class. if that method override super class method. we doesn’t get any error else we get the error.

abstract keyword

1. abstract keyword we can use with method and class but not with variable.
2. Abstract method means incomplete method or method without body or without curly braces.

abstract returntype methodName(parameterList);

abstract void speed();

1. If class contains one or more abstract method we need to declare the class as abstract class.

abstract class className {}

1. Whichever class extends abstract class that class must be provide the body for all abstract method mandatory.
2. abstract class can contains normal as well as abstract methods. Means it can contains zero or 1 or many abstract methods. Class is abstract but not mandatory all methods or any method must be abstract.
3. We can’t create the object of abstract class.

final keyword

1. Final keyword we can use with class, method and variable.
2. Final variable : to declare a constant value in java we use final keyword with variable.

final int A=10;

1. Final method : if method is final we can’t override that method.
2. Final class : we can’t inherits or extends the final class.

static keyword :

1. Static keyword we can use with variable and method but not with class.
2. Static variable : if variable is static we can access or assign the value for that variable using class name.
3. Static method : if method is static we can that method with help of class name object not required.
4. Static variable as well as static method we can access or call using object also.
5. Inside a static method we can access only static method/variable directly.
6. Inside non static method we can access both type of variable ie static as well as non static.

Static memory vs instance memory