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| What is method overloading? | Method overloading is the polymorphism technique which allows us to create multiple methods with the same name but different signature. |
| method overloading in two ways. | 1. Changing the number of arguments 2. Changing the type of arguments |
| method overloading not possible by changing the return type in java? |  |
| Can we overload the methods by making them static? | No, We cannot overload the methods by just applying the static keyword to them(number of parameters and types are the same) |
| Can we overload the main() method? | Yes, we can have any number of main methods in a Java program by using method overloading. |
| What is method overloading with type promotion |  |
| OverloadingCalculation3.java:7: error: reference to sum is ambiguous  obj.sum(20,20);//now ambiguity  ^  both method sum(int,long) in OverloadingCalculation3  and method sum(long,int) in OverloadingCalculation3 match  1 error |  |
| Types of polymorphism | In Java polymorphism is mainly divided into two types:  Compile time Polymorphism(Overloading)   1. Static binding 2. change in number of arguments or change in type of arguments.) 3. **we can’t overload only by changing return type** 4. Method Overloading 5. Operator Overloading   Runtime Polymorphism (overridden) |
| 1. Method Overloading |  |
| 1. Operator Overloading |  |