

1. What are the differences of overloading and overriding?

Ans :

<b>Method Overloading</b>	<b>Method Overriding</b>
1. Method overloading means we have to declare a method more than one times with the same name depending on the data-type and the number of arguments.	1. If the method signature (method name and parameter-list) and return type of the super class is same as the method signature and return type of the sub class , then we can say method of sub class overrides the method of superclass,override means redefine with the modified form.
2. Method overloading is the example of compile time polymorphism.	2. Method overriding is the example of run time polymorphism.
3. Method overloading is performed within a single class.	3. Method overriding performed in two classes that have IS-A (inheritance) relationship.
4. In case of Method overloading, parameter list must be different.	4. In case of Method overriding, parameter list must be same.
5. In case of Method Overloading return type can be same or different, Method Overloading doesn't depend on return type.	5. In case of Method Overriding, return type of super class method and sub class method must be same.
6. We can overload constructor.	6. We can't override constructor.
7. It does not depends on scope accessibility access specifier like Public, protected, default, private.	7. It depends on access specifier, overridden method always take either same or higher access specifiers.