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# Core Java Tutorial: Java Method Overriding



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# *Java Method Overriding*

- **Method overriding** is achieved when a subclass provides the specific implementation of an **instance method** already defined in its superclass.
- The method in superclass is called **overridden method** and the method in subclass is called **overriding method**. There must be an **IS-A relationship** (i.e. inheritance).
- The new method definition must have the **same method name** and **same parameter list**.
- It is an example of **run time polymorphism** (i.e. dynamic binding) because the method to be invoked is determined at the run time only.
- When a superclass reference points to the subclass object then the call to the overridden method is determined at runtime. This procedure is known as **dynamic method dispatch**.

# References

## ■ Book Resources:

- Herbert Schildt. *Java: The complete Reference*. Tata McGraw Hill (TMH), 9th Edition.
- Cay S. Horstmann, Gary Cornell. *Core Java Volume-I and Volume-II*. Pearson Education, 8th Edition.
- Kathy Sierra, Bert Bates. *Head First Java*. O'Reilly Media, 2nd Edition.
- E. Balagurusamy, *Programming with Java A Primer*. TMH, 3rd Edition.

## ■ URL Resources:

- <https://docs.oracle.com/javase/tutorial/java/package/index.html>
- <https://www.w3schools.com/java/default.asp>