

## 3.3 Method Overriding in Java

- If subclass (child class) has the same method as declared in the parent class, it is known as **method overriding in java**.
- In other words, If subclass provides the specific implementation of the method that has been provided by one of its parent class, it is known as method overriding.

### ❑ Usage of Java Method Overriding

- Method overriding is used to provide specific implementation of a method that is already provided by its super class.
- Method overriding is used for runtime polymorphism

### ❑ Rules for Java Method Overriding

- Method must have same name as in the parent class
- Method must have same parameter as in the parent class.
- Must be IS-A relationship (inheritance).

#### Example:

```
class Vehicle{
void run(){
System.out.println("Vehicle is running");
}
}
class Bike2 extends Vehicle{
void run(){
System.out.println("Bike is running safely");
}
```

```
}  
public static void main(String args[]){  
  
Bike2 obj = new Bike2();  
obj.run();  
}
```

**Output:**

Bike is running safely