Method Chaining In Java with Examples

**Method Chaining** **is the practice of calling different**[**methods**](https://www.geeksforgeeks.org/methods-in-java/)**in a single line** instead of calling different methods **with the same object reference** separately. Under this procedure, we have to write the object reference once and then call the methods by separating them with a (dot.). It must be your foremost question, how will it work and how to use it?.

Let’s audit the example first and then it will be much smoother to explain.

### Java program of method chaining using String and StringBuilder class methods

class MethodChainingProgram {

public static void main(String args[]) {

StringBuilder sb = new StringBuilder("Java");

// Below line uses method chaining technique

sb.insert(0,"Learn ").append("online").append(" tutorial");

System.out.println(sb);

// Below line also uses method chaining technique

String str = sb.substring(14).replace(" tutorial", "").toUpperCase();

System.out.println(str);

}

}

**Output:**

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Now let's create our own methods that can be used in method chaining approach. As mentioned above the method must return an object if it needs to be used in method chaining. The program below contains method setName and setAge that we can use in method chaining.

### Java program of method chaining

class Person {

String name;

int age;

// This method can be used in chaining

public Person setName(String name) {

this.name = name;

return this;

}

// This method can also be used in chaining

public Person setAge(int age) {

this.age = age;

return this;

}

public void getPersonDetails() {

System.out.println("Person name : " + name + ", age : " +age+" years.");

}

}

class MethodChainingDemo {

public static void main(String[] args) {

Person person= new Person();

// Below line uses method chaining technique

person.setName("Rahul").setAge(22).getPersonDetails();

}

}

**Output:**

Person name : Rahul, age : 22 year.

Using method chaining has couple of benefits like it improves the readability and reduces the amount of source code. But it also has some disadvantages as well like It's hard to debug if any of the method fails while execution. Exception handling also becomes tough, sometime it's confusing as well.