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Final

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Overview

The final keyword in Java is used in different contexts. It can be used in the context of a variable, a method or a class. When the final keyword is used with a variable, you can no longer change the value of that variable. When the final keyword is applied to a method, you will no longer be able to override that method. When the final keyword is applied to a class, you will no longer be able to extend that class.

Tutorial

Final Variable

We would generally apply the final keyword to a variable when we have an attribute of a class that will have the same value across all instances of that class. We can declare a variable and apply the final keyword to it in the following way:

```
public class FinalKeyword {  
  
    private final int number = 3;  
}
```

Generally you would also set a final variable as static too, so that only 1 reference to that value is created across all instances of the class since each instance will have the same value of number.

Final Method

We would generally apply the final keyword to a method when we know that the functionality of our method will not need changing or altering in any way. We can declare a method and apply the final keyword to it in the following way:

```
public class FinalKeyword {  
  
    public final void method() {  
  
    }  
}
```

Final Class

Generally we would apply the final keyword to a class when we know that the class will be the last child class, meaning no class will ever need to inherit from our class. We can declare a class and apply the final keyword to it in the following way:

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IDE Cheatsheet

```
public final class FinalKeyword {  
  
}
```

Exercises

There are no exercises for this module.

