

# Final Keyword in Java

The **final keyword** in java is used to restrict the user. The java final keyword can be used in many context. Final can be:

1. variable
2. method
3. class

The final keyword can be applied with the variables, a final variable that have no value it is called blank final variable or uninitialized final variable.

## 1.Java final variable

If you make any variable as final, you cannot change the value of final variable(It will be constant).

Example program:

```
class Bike9{
    final int speedlimit=90;//final variable
    void run(){
        speedlimit=400;
    }
    public static void main(String args[]){
        Bike9 obj=new Bike9();
        obj.run();
    }
}
```

**Compile by: javac Bike9.java**

Error:cannot assign value to a final variable speedlimit .  
speedlimit=400;

## 2.Java final method

If you make any method as final, you cannot override it.

Example of final method:

```
class Bike{
    final void run(){System.out.println("running");}
}

class Honda extends Bike{
    void run(){System.out.println("running safely with 100kmph");}

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

**Compile by: javac Honda.java**

Error:run() in Honda can not override run() in Bike.

## 3.Java final class

If you make any class as final, you cannot extend it.

Example of final class:

```
final class Bike{}

class Honda1 extends Bike{
```

```
void run(){System.out.println("running safely with 100kmph");}
```

```
public static void main(String args[]){  
    Honda1 honda= new Honda1();  
    honda.run();  
}  
}
```

**Compile by: javac Honda1.java**

Error:cannot inherit from final Bike class Honda1 extends Bike{