CYDEO

Final Keyword

What Is Final Keyword in Java?

- Used to restrict the user

Final Variable

Can't Re- assign

Final Class
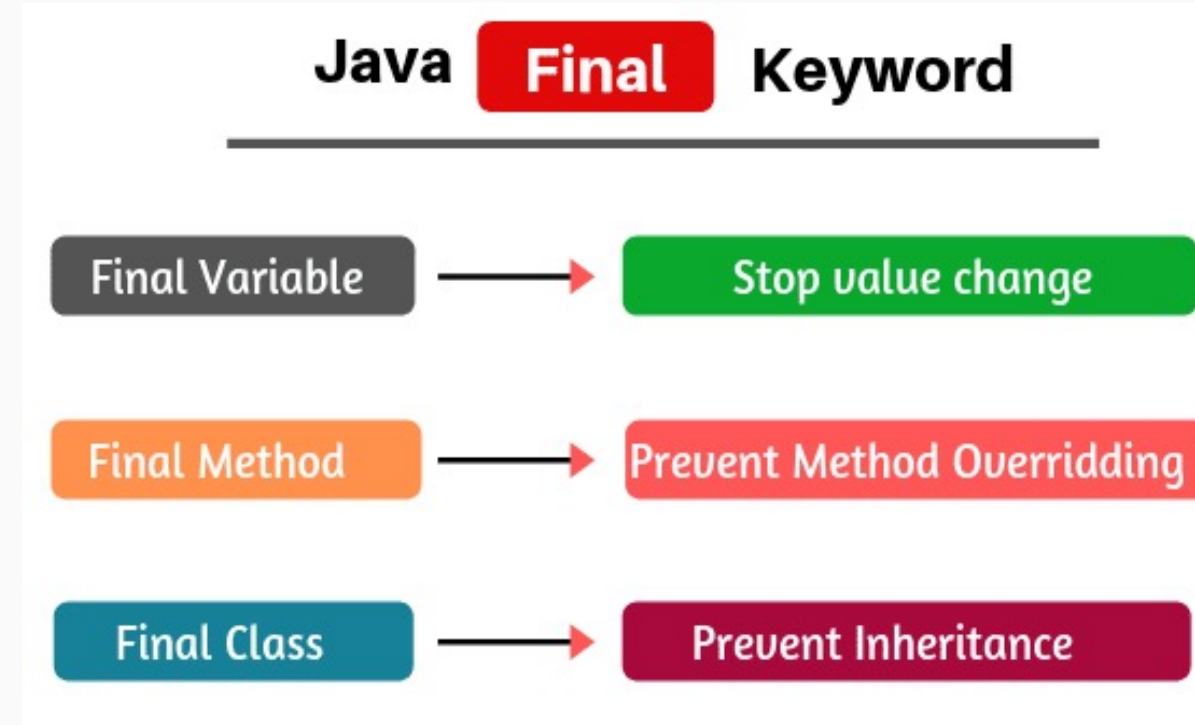
Can't Inherit

Final Method

Can't Override

CYDEO

Final Keyword

- Used to restrict the user.

- Makes the features unchangeable.

- Final keyword is only applicable to a variable, a method, or a class.

Final Variables

- Variable becomes a constant.

- The value of the variable can not be modified.

- We can not reassign a final variable

```java
public class Test{

    public static void main(String[] args) {

        final int number = 100;

        number = 200; //Compile Error

    }

}
```

```java
public final static double PI = 3.14;

public final String dateOfBirth;

public final String firstLangauge;
```

Final Methods

- Implementation of the method becomes unchangeable

- Final methods can not be overridden

```java
public class A{

    public final void method(){
        System.out.println("Java Programming");
    }

}
```

```java
public class Test extends A{

    @Override
    public void method(){ //Compile Error
        System.out.println("Python Programming");
    }

}
```

Final Class

- A class that can not be extended

- The class can not be a super (parent) class

```java
public final class Iphone{

    public void faceTime(){
        System.out.println("Facetime App");
    }

}
```

```java
public class Samsung extends Iphone{
                        //Compile Error

}
```