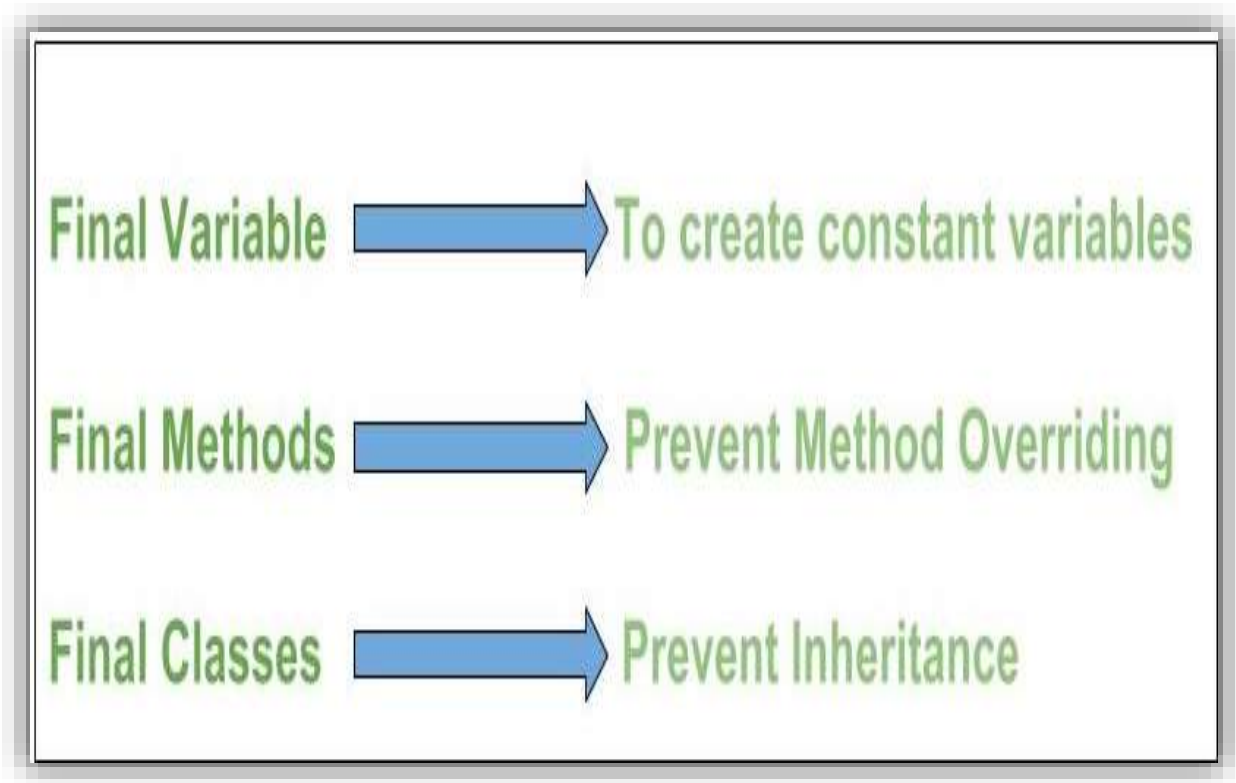


3.4 Final Keyword

- The final keyword in java is used to restrict the user.
- The java final keyword can be used in many contexts.



- Final can be: **variable, method, 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.
- It can be initialized in the constructor only.
- The blank final variable can be static also which will be initialized in the static block only.

1)Java final variable:

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

Example of final variable

There is a final variable speed limit, we are going to change the value of this variable, but It can't be changed because final variable once assigned a value can never be changed.

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

Output:

Compile Time Error

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();
    }
}
```

Output:

Compile Time Error

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();  
    }  
}
```

Output:

Compile Time Error