**Final keyword in java**

It is used to make a variable as a constant, Restrict method overriding, Restrict inheritance. It is used at variable level, method level and class level. In java language final keyword can be used in following way.

* Final at variable level
* Final at method level
* Final at class level

**Final at variable level**

Final keyword is used to make a variable as a constant. This is similar to const in other language. A variable declared with the final keyword cannot be modified by the program after initialization. This is useful to universal constants, such as "PI".

**Final Keyword in java Example**

**public** **class** Circle

{

**public** **static** **final** **double** PI=3.14159;

**public** **static** **void** main(String[] args)

{

System.**out**.println(PI);

}

}

**Final at method level**

It makes a method final, meaning that sub classes can not override this method. The compiler checks and gives an error if you try to override the method.

When we want to restrict overriding, then make a method as a final.

**Example**

**public** **class** A

{

**public** **void** fun1()

{

.......

}

**public** **final** **void** fun2()

{

.......

}

}

**class** B **extends** A

{

**public** **void** fun1()

{

.......

}

**public** **void** fun2()

{

// it gives an error because we can not override final method

}

}

**Example of final keyword at method level**

**Example**

**class** Employee

{

**final** **void** disp()

{

System.**out**.println("Hello Good Morning");

}

}

**class** Developer **extends** Employee

{

**void** disp()

{

System.**out**.println("How are you ?");

}

}

**class** FinalDemo

{

**public** **static** **void** main(String args[])

{

Developer obj=**new** Developer();

obj.disp();

}

}

**Output**

It gives an error

**Final at class level**

It makes a class final, meaning that the class can not be inheriting by other classes. When we want to restrict inheritance then make class as a final.

**Example**

**public** **final** **class** A

{

......

......

}

**public** **class** B **extends** A

{

// it gives an error, because we can not inherit final class

}

**Example of final keyword at class level**

**Example**

**final** **class** Employee

{

**int** salary=10000;

}

**class** Developer **extends** Employee

{

**void** show()

{

System.**out**.println("Hello Good Morning");

}

}

**class** FinalDemo

{

**public** **static** **void** main(String args[])

{

Developer obj=**new** Developer();

Developer obj=**new** Developer();

obj.show();

}

}

**Output**

Output:

It gives an error