Final Keyword Purposes

Final method

final method cannot override in a child class.

```
package com.finalpurpose;

public class FinalTestFather {

//Method with 'final' cannot override

public final String Hello() {

string s = "Hello";

return s;

}

public String GoodBye() {

string s = "GoodBye";

return s;

return s;

}
```

```
//CANNOT OVERRIDE THE METHOD Hello() BECAUSE IT IS FINAL METHOD

// @Override
// public final String Hello() {
// String s = "Hello World";
// return s;
// return s;
// @Override
// @Override
// @Override
// String GoodBye() {
// String s = "GoodBye World";
// String s = "GoodBye World";
// String s = "GoodBye World";
// Return s;
// Re
```

Final variable

Final variable is a constant, it cannot change its value and must be initialized.

```
//a variable with 'final keyword' is a constant
final int x = 1;

int w = 2;

//'x' is final and y 'w' is not final

final int ChangeValueOfX() {
    //we cannot change the value of X
    //x = 2;
    return x;

}

int ChangeValueOfW() {
    //'w' unlike 'x' can change its value because don't have the 'final keyword'
    w = 1;
    return w;
}
```

Final Class

A final class is the last class in the inheritance, it <u>cannot</u> have children.

```
1 package com.finalpurpose;
2
3 //a class with 'final keyword' cannot inherit
4 public final class FinalTest extends FinalTestFather{
5
```

```
1 package com.finalpurpose;
2
3 // "FinalTest" cannot inherit because it has the 'final keyword'
4 public class FinalTestChild /*extends FinalTest*/{
5
6 }
```