

Final Keyword in java

Unit-2

- final KW can be used in several different contexts - with var, fun & class.
- In general, it is used to prevent changes.
- When final is used w/ a variable :-
then that variable becomes const. i.e its value can't be changed.
- When final is used w/ a fun :-
then it can't be overridden by the derived class i.e derived class can't create another fun w/ same name & parameter.
- When final is used w/ a class :-
then that class can't be inherited.

eg1 final var.

```
C { P S V M (...) }
```

```
    final int a = 10;
```

```
    int b = 20;
```

```
    a = 30;
```

```
    b = 30; // Not allowed.
```

b is final, can't be changed.

```
}
```

```
}
```

eg2 final fun()

```
class base {
```

```
//there r 2 fun in base
```

```
//fun1 is not final, it can be o/riden in der class
```

```
//fun2 " final, it can't be " " " "
```

```
public void fun1() {
```

```
    System.out.println("fun1 in base class");
```

```
}
```

```
final public void fun2() {
```

```
    System.out.println("fun2 in base");
```

```
}
```

```
class derived extends base {
```

```
//fun1 can be o/riden here.
```

```
public void fun1() {
```

```
    System.out.println("fun1 in derived");
```

```
}
```

```
//fun2 can't be o/riden
```

```
}
```

```
C D { P S U M ( ) }
```

```
//create obj of base
```

```
base obj1 = new base();
```

```
obj1.fun1();
```

```
obj1.fun2();
```

// create obj of derived

derived obj2 = new derived();

obj2.fun1(); // derived obj can call fun1

}

}

eg-3 final class

// final class can't be inherited

final class box {

public void fun() {

System.out.println("fun in box");

}

}

CD { ps vm (...) }

// create obj of box

box obj = new box();

obj.fun();

}

}