**package** cn.singleton;

/\*\*饿汉式单列模式

\* 饿汉式线程安全 ，效率高，没有延时加载

\*/

**public** **class** SingletonDemo01 {

//Jvm加载类时。就产生一个实例所以叫饿汉式单例模式。没有延时加载。

**private** **static** SingletonDemo01 *instance* = **new** SingletonDemo01();

//构造函数私有化

**private** SingletonDemo01(){

}

**public** **static** SingletonDemo01 getInstance(){

**return** *instance*;

}

}

**package** cn.singleton;

/\*\* 懒汉式单例模式叫延时加载 。线程安全，效率低，可以延时加载

\*/

**public** **class** SingletonDemo02 {

**private** **static** SingletonDemo02 *instance2* ;

**private** SingletonDemo02(){

}

**public** **static** **synchronized** SingletonDemo02 getInstance(){

**if**(*instance2*==**null**){

*instance2* = **new** SingletonDemo02();

}

**return** *instance2*;

}

}

**package** cn.singleton;

/\*\*

\* 静态内部类来实现单例模式

\* 特点：效率高，可以延时加载，线程安全

\* **@author** ck

\*

\*/

**public** **class** SingletonDemo04 {

**private** **static** **class** SingletonClassInstance{

**private** **final** **static** SingletonDemo04 *instance* = **new** SingletonDemo04();

}

**private** SingletonDemo04(){

}

**public** **static** SingletonDemo04 getInstance(){

**return** SingletonClassInstance.*instance*;

}

}

**package** cn.singleton;

/\*\*

\* 枚举实现单例模式，效率高，不可以延时加载，线程安全

\* **@author** Administrator

\*

\*/

**public** **enum** SingletonDemo05 {

*INSTANCE*;

}

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

//饿汉式单例模式检验

SingletonDemo01 instance01 = SingletonDemo01.*getInstance*();

SingletonDemo01 instance02 = SingletonDemo01.*getInstance*();

System.*out*.println(instance01.equals(instance02));

//懒汉式单例模式

SingletonDemo03 instance03 = SingletonDemo03.*getInstance*();

SingletonDemo03 instance04 = SingletonDemo03.*getInstance*();

System.*out*.println(instance03.equals(instance04));

//检验静态内部类实现单例模式的操作

SingletonDemo04 instance05 = SingletonDemo04.*getInstance*();

SingletonDemo04 instance06 = SingletonDemo04.*getInstance*();

System.*out*.println(instance05 == instance06);

System.*out*.println(SingletonDemo05.*INSTANCE*==SingletonDemo05.*INSTANCE*);