7. Write a program in java to verify the implementations of inner classes

**package** innerclassverification;

**public** **class** InnerClassVerification {

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

// Static inner class

OuterClass.StaticInnerClass staticInner = **new** OuterClass.StaticInnerClass();

staticInner.staticInnerMethod();

// Local inner class

OuterClass outer = **new** OuterClass();

outer.localInnerMethod();

// Anonymous inner class

outer.anonymousInnerMethod();

}

}

**class** OuterClass {

**private** **int** outerVariable = 10;

// Static inner class

**static** **class** StaticInnerClass {

**public** **void** staticInnerMethod() {

System.***out***.println("Static inner method called");

}

}

// Local inner class

**public** **void** localInnerMethod() {

**class** LocalInnerClass {

**public** **void** localInnerMethod() {

System.***out***.println("Local inner method called");

}

}

LocalInnerClass localInner = **new** LocalInnerClass();

localInner.localInnerMethod();

}

// Anonymous inner class

**public** **void** anonymousInnerMethod() {

**new** Thread(**new** Runnable() {

@Override

**public** **void** run() {

System.***out***.println("Anonymous inner method called");

}

}).start();

}

}

Output:

