A.java

*Access Modifiers*

package a;

public class A {

//Instance Methods

public void getPublic() {

System.out.println("Instance Public");

}

protected void getProtected() {

System.out.println("Instance Protected");

}

void getDefault() {

System.out.println("Instance Package Private");

}

private void getPrivate() {

System.out.println("Instance Private");

}

//Class Methods

public static void getStaticPublic() {

System.out.println("Class Public");

}

protected static void getStaticProtected() {

System.out.println("Class Protected");

}

static void getStaticDefault() {

System.out.println("Class Package Private");

}

private static void getStaticPrivate() {

System.out.println("Class Private");

}

public static void main(String[] args) {

A a = new A();

a.getPublic();

a.getProtected();

a.getDefault();

a.getPrivate();

getStaticPrivate();

getStaticDefault();

getStaticProtected();

getStaticPublic();

}

}

D.java

package a;

public class D {

public static void main(String[] args) {

A a = new A();

a.getPublic();

a.getProtected();

a.getDefault();

//a.getPrivate(); //Compilation fails. The method getPrivate() from the type A is not visible

A.getStaticPublic();

A.getStaticProtected();

A.getStaticDefault();

//A.getStaticPrivate(); //Compilation fails. The method getStaticPrivate() from the type A is not visible

}

}

B.java

package b;

import a.A;

public class B {

public static void main(String[] args) {

A a = new A();

a.getPublic();

//a.getProtected(); //Compilation fails. The method getProtected() from the type A is not visible

//a.getDefault(); //Compilation fails. The method getDefault() from the type A is not visible

//a.getPrivate(); //Compilation fails. The method getPrivate() from the type A is not visible

A.getStaticPublic();

//A.getStaticProtected();//Compilation fails. The method getStaticProtected() from the type A is not visible

//A.getStaticDefault(); //Compilation fails. The method getStaticProtected() from the type A is not visible

//A.getStaticPrivate(); //Compilation fails. The method getStaticPrivate() from the type A is not visible

}

}

C.java

package c;

import a.A;

public class C extends A{

public static void main(String[] args) {

A a = new A();

a.getPublic();

//a.getProtected(); //Compilation fails. The method getProtected() from the type A is not visible

//a.getDefault(); //Compilation fails. The method getDefault() from the type A is not visible

//a.getPrivate(); //Compilation fails. The method getPrivate() from the type A is not visible

C c = new C();

c.getPublic();

c.getProtected();

//c.getDefault(); //Compilation fails. The method getDefault() from the type A is not visible

//c.getPrivate(); //Compilation fails. The method getPrivate() from the type A is not visible

getStaticPublic();

getStaticProtected();

//getStaticDefault(); //Compilation fails. The method getStaticDefault() from the type A is not visible

//getStaticPrivate(); //Compilation fails. The method getStaticPrivate() from the type A is not visible

A.getStaticPublic();

A.getStaticProtected();

//A.getStaticDefault(); //Compilation fails. The method getStaticProtected() from the type A is not visible

//A.getStaticPrivate(); //Compilation fails. The method getStaticPrivate() from the type A is not visible

}

}