pack1

public class Base

private fun1

fun2

protected fun3

public fun4

public class Sub1 extends Base

public void disp1()

{

fun1() // no

fun2() // yes

fun3() // yes

fun4() // yes

}

pack2

public class Sub2 extends Base

{

public void disp2()

{

fun1() // no

fun2() // no

fun3() // yes

fun4() // yes

}

}

public class OtherClass

{

public void disp3()

{

fun1()/fun2()/fun3() // no

Base b=new Base();

b.fun4();

}

}

public class Demo [ outside any package ]

main

create objects of Sub1,Sub2 and OtherClass and invoke disp1,disp2 and disp3

package pack1;

public class Base {

private void fun1() {

System.***out***.println("private fun 1");

}

void fun2() {

System.***out***.println("default fun 2");

}

protected void fun3() {

System.***out***.println("protected fun 3");

}

public void fun4() {

System.***out***.println("public fun 4");

}

public static void main(String[] args) {

// **TODO** Auto-generated method stub

}

}

package pack1;

public class sub1 extends Base {

public void disp1() {

// fun1(); this gives error because its private in Base class

fun2();

fun3();

fun4();

}

public static void main(String[] args) {

// **TODO** Auto-generated method stub

}

}

package pack2;

import pack1.Base;

public class OtherClass {

public void disp3()

{

// fun1(); // error occurs because its private in Base class

// fun2(); // error occurs because its default in base class which is only accessible in same package

// fun3(); // error occurs because its protected in base class which is only accessible in child class even if its in other package

Base b=new Base();

b.fun4();

}

public static void main(String[] args) {

// **TODO** Auto-generated method stub

}

}

package pack2;

import pack1.Base;

public class sub2 extends Base {

public void disp2()

{

//fun1(); // error occurs because its private in Base class

//fun2();// error occurs because its default in base class which is only accessible in same package

fun3() ;

fun4();

}

public static void main(String[] args) {

// **TODO** Auto-generated method stub

}

}

import pack1.sub1;

import pack2.sub2;

import pack2.OtherClass;

public class Demo {

public static void main(String[] args) {

// **TODO** Auto-generated method stub

sub1 s1 = new sub1();

sub2 s2 = new sub2();

OtherClass oc = new OtherClass();

System.***out***.println("Sub1 in same package as Base");

s1.disp1();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("Sub2 in package 2 ");

s2.disp2();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("OtherClass in package 2");

oc.disp3();

}

}