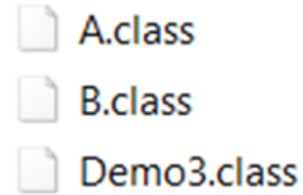
CLASS CREATION

D:\Java Programs



Demo3.java

```
class A{

}
class B extends A{

}

class Demo3{
        public static void main(String aa[]){

        }
}
```

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Demo4.java

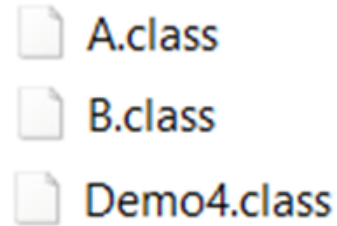
```
class A{

}
class B extends A{

}

class Demo4{
        public static void main(String aa[]){

        }
}
```



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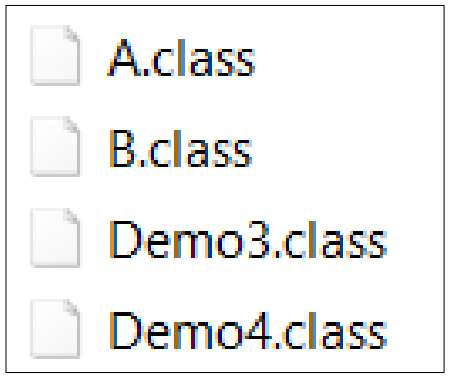
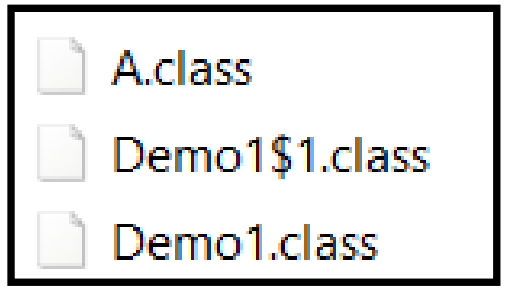


```
class A{

}
class Demo1{
        public static void main(String ss[]){

                new A() { };

        }
}
```



```
class A{

}
class B extends A{

}

class Demo4{
        public static void main(String aa[]){

        }
}
```

A.java

```
javac A.java
java  Demo4
```

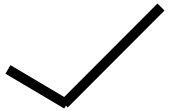
```
class A{

}
class B extends A{

}

public class Demo3{
        public static void main(String aa[]){

        }
}
```



Demo3.java

A.java

```
D:\Java Programs>javac A.java

A.java:10: error: class Demo3 is public,

should be declared in a file named Demo3.java

        public class Demo3{
                     ^
1 error

D:\Java Programs>
```

```
class A{

}
public class B extends A{

}

public class Demo3{
        public static void main(String aa[]){

        }
}
```

```
D:\Java Programs>javac A.java

A.java:6: error: class B is public,

should be declared in a file named B.java

        public class B extends A{
               ^


A.java:10: error: class Demo3 is public,

should be declared in a file named Demo3.java

        public class Demo3{
               ^
2 errors
```

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A.java

```
public class A{

}
```

B.java

```
public class B extends A{

}
```

Demo3.java

```
public class Demo3{
        public static void main(String aa[]){

                new A();

                new B();

        }
}
```

```
D:\Java Programs>
                    A.java

                    B.java

                Demo3.java
```

```
D:\Java Programs>

                    A.java

                    B.java

                 Demo3.java


                    A.java
```

PACKAGES

A.java

```
package test1;
public class A{

}
```

B.java

```
package test1;
public class B extends A{

}
```

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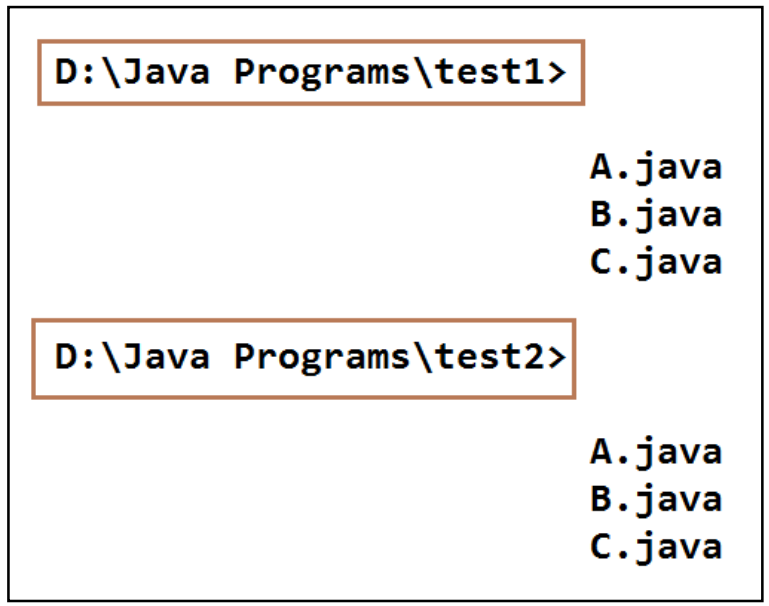
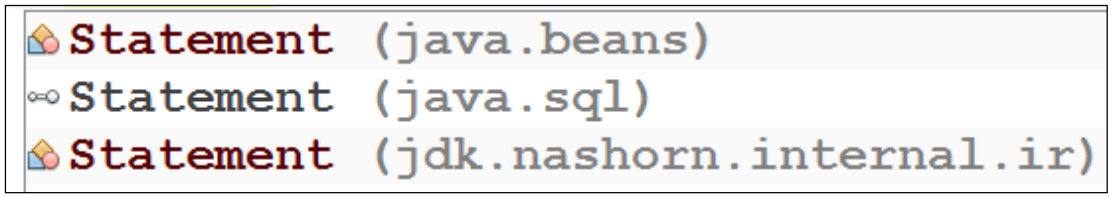
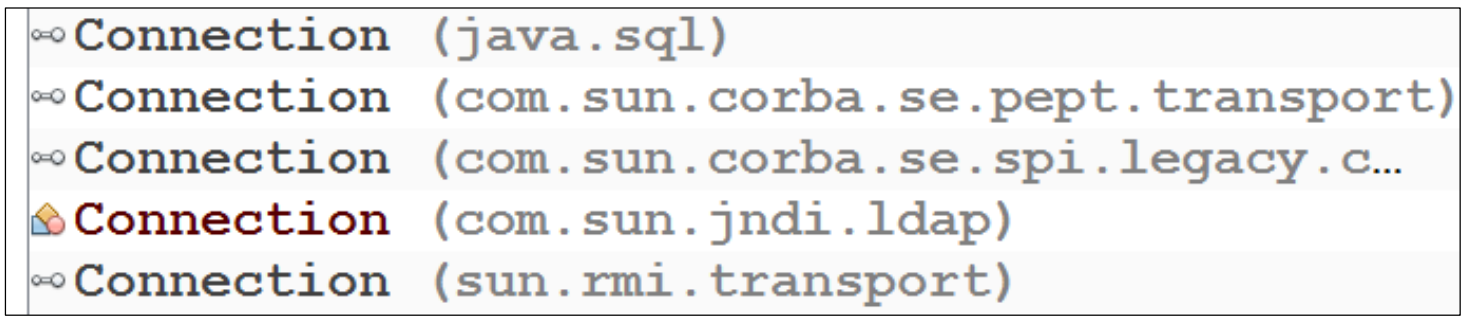

D:\Java Programs\test1>
A.java
B.java
C.java
D:\Java Programs\test2>
A.java
B.java
C.java


Statement (java.beans)
Statement (java.sql)
Statement (jdk.nashorn.internal.ir)


Connection (java.sql)
Connection (com.sun.corba.se.pept.transport)
Connection (com.sun.corba.se.spi.legacy.c…
Connection (com.sun.jndi.ldap)
Connection (sun.rmi.transport)

```
package demo;

public class MyProgram{

        public static void main(String ss[]){

                System.out.println(" Good Morning! ");

        }

        public void show(){

                System.out.println(" Method Show ");

        }

}
```

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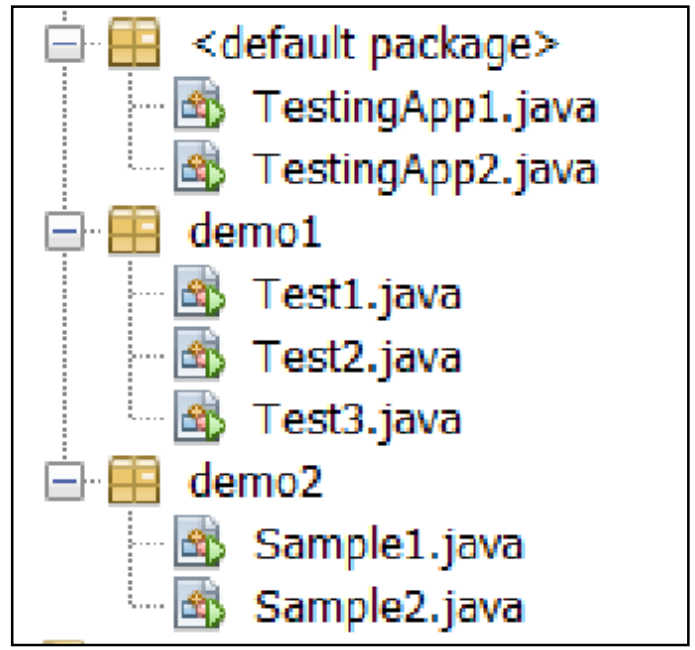
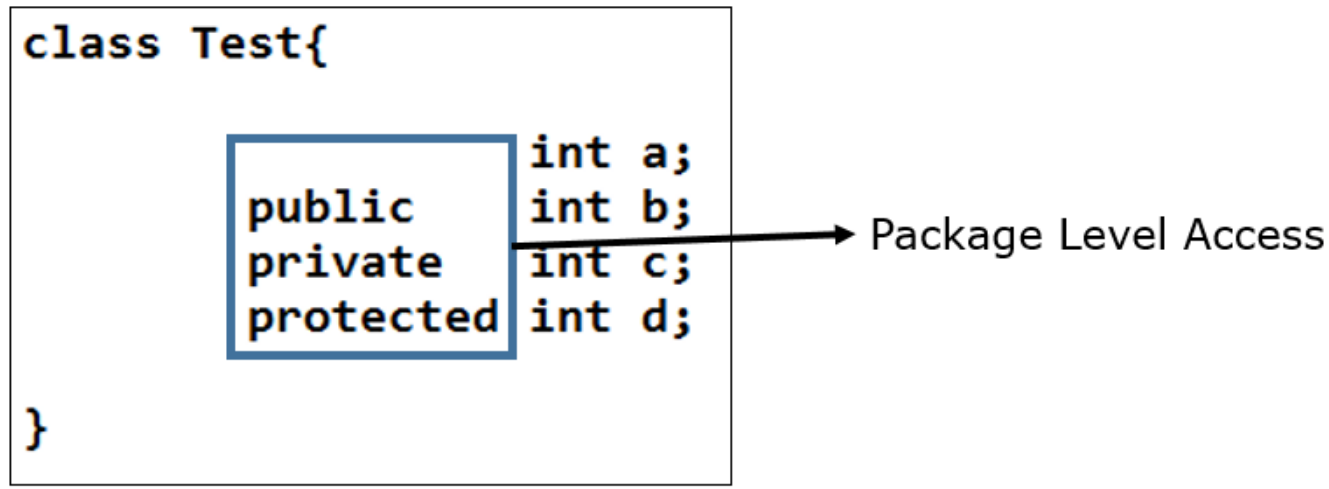


ACCESS MODIFIERS



Modifiers

Java provides two types of modifiers

1. **Access Modifiers**

2. **Non-Access Modifiers**

private
default or No Modifier
protected
public

static
final
abstract
synchronized
transient
volatile
strictfp

```
class Test
{
	int x,y;
	void test1()
	{
		System.out.println(" X  : "+x);
		System.out.println(" Y  : "+y);
	}
}
```

```
class A
{

}
```

```
class B
{

}
```

```
class Test
{
        int x,y;
        void test1()
        {
                System.out.println(" X   : "+x);
                 System.out.println(" Y   : "+y);
        }
}
```

```
class A
{
        void display1()
        {
                Test t1=new Test();
                t1.x=50;
                t1.y=60;
                t1.test1();
        }
}
```

```
class Test
{
        int x,y;
        void test1()
        {
                 System.out.println(" X  : "+x);
                System.out.println(" Y  : "+y);
        }
}
```

```
class B extends Test
{
        void display1()
        {
                    x=50;
                    y=60;

                    test1();
        }
}
```

Access Modifiers

private

protected

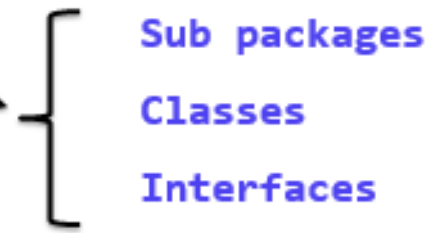
public

default (friendly modifier)

Packages

```
package yahoo;

class Registration
{
}
```



Packages

Test1.java

Test2.java

Test3.java

```
package demo1;
public class Test1
{
}
```

```
package demo1;
public class Test2
{
}
```

```
package demo1;
public class Test3
{
}
```

Packages

```
package demo1;
public class Test1
{
                int v1;
    private     int v2;
    protected   int v3;
    public      int v4;
}
```

```
package demo1;
public class Test2
{

}
```

```
package demo2;
public class Test3
{
}
```

```
public class Test4
{
}
```

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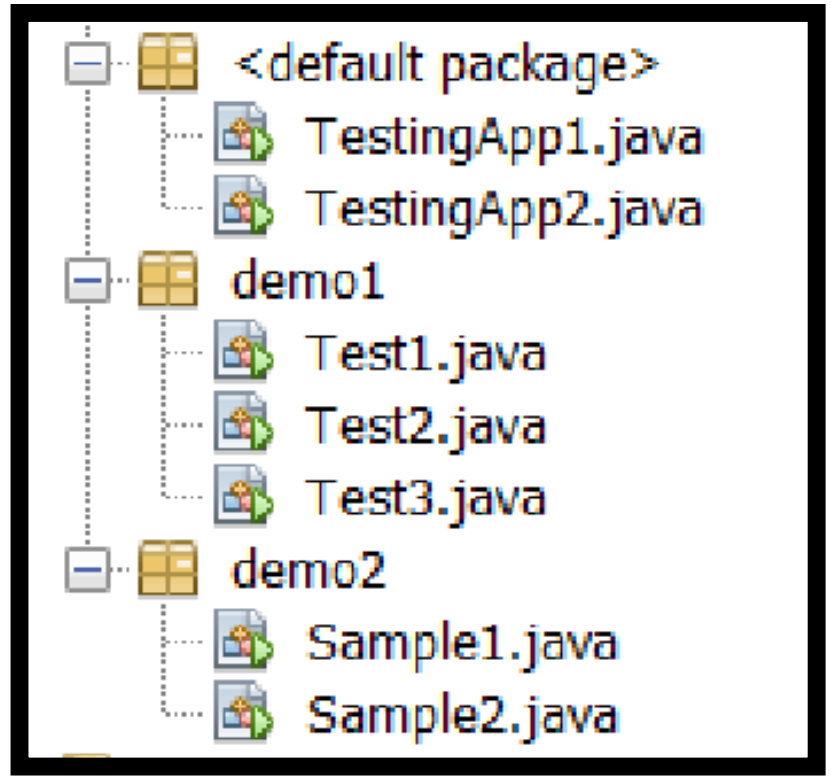

```
package demo;

public class MyProgram{

        public static void main(String ss[]){

                System.out.println(" Good Morning! ");

        }

        public void show(){

                System.out.println(" Method Show ");

        }

}
```

```
D:\Java Programs>javac demo\MyProgram.java

D:\Java Programs>java demo.MyProgram
 Good Morning!
```

```
package com.sample.app;

class  Test{

        void display(){

                System.out.println(" Welcome ");

        }

        public static void main(String ss[]){

                new Test().display();

        }
}
```

```
D:\Java Programs>javac com\sample\app\Test.java

D:\Java Programs>java com.sample.app.Test
 Welcome
```