

```
package pack1;  
class A  
{  
    static int i=10;  
}
```

```
package pack1;
```

```
class B
```

```
{
```

```
    static void test()
```

```
    {
```

```
        System.out.println("from test");
```

```
    }
```

```
}
```

```
package pack1;  
class C  
{  
    public static void main(String[ ] arg)  
    {  
        System.out.println(A.i);  
        B.test( );  
    }  
}
```

Command Prompt

```
D:\intern\modifiers\src>javac -d ../classes pack1/A.java pack1/B.java pack1/C.java
```

```
D:\intern\modifiers\src>javac -d ../classes pack1/*.java
```

```
D:\intern\modifiers\src>java -cp ../classes pack1.C3
```

```
Error: Could not find or load main class pack1.C3
```

```
Caused by: java.lang.ClassNotFoundException: pack1.C3
```

```
D:\intern\modifiers\src>java -cp ../classes pack1.C
```

```
10
```

```
from test
```

```
D:\intern\modifiers\src>_
```

```
package pack1;  
class D  
{  
    static  
    {  
        System.out.println("D-SIB");  
    }  
    public static void main(String[ ] arg)  
    {  
        System.out.println("D-main");  
    }  
}
```

```
package pack1;
```

```
class D
```

```
{
```

```
    static
```

```
    {
```

```
        System.out.println("D-SIB");
```

```
    }
```

```
    public static void main(String[ ] arg)
```

```
    {
```

```
        System.out.println("D-main");
```

```
    }
```

```
}
```

```
package pack1;
class E
{
    static
    {
        System.out.println("E-SIB");
    }
    public static void main(String[ ] arg)
    {
        System.out.println("E-main-begin");
        D.main(null);
        System.out.println("-----");
        D.main(null);
        System.out.println("E-main-end");
    }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.19045.3324]
(c) Microsoft Corporation. All rights reserved.

C:\Users\manju>D:

D:\>cd intern

D:\intern>cd modifiers

D:\intern\modifiers>cd src

D:\intern\modifiers\src>javac -d ../classes pack1/D.java pack1/E.java

D:\intern\modifiers\src>java -cp ../classes pack1.E
E-SIB
E-main-begin
D-SIB
D-main
-----
D-main
E-main-end

D:\intern\modifiers\src>
```

```
package pack1;
```

```
class F
```

```
{
```

```
    static int i;
```

```
    static void test( )
```

```
{
```

```
    System.out.println("from test:"+i);
```

```
}
```

```
}|
```

```
package pack1;
class G
{
    public static void main(String[] arg)
    {
        System.out.println("from main:"+F.i);
        F.test( );
    }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.19045.3324]
(c) Microsoft Corporation. All rights reserved.

C:\Users\manju>D:

D:\>cd intern

D:\intern>cd modifiers

D:\intern\modifiers>cd src

D:\intern\modifiers\src>javac -d ../classes pack1/D.java pack1/E.java

D:\intern\modifiers\src>java -cp ../classes pack1.E
E-SIB
E-main-begin
D-SIB
D-main
-----
D-main
E-main-end

D:\intern\modifiers\src>javac -d ../classes pack1/F.java pack1/G.java

D:\intern\modifiers\src>java -cp ../classes pack1.G
from main:0
from test:0

D:\intern\modifiers\src>
```



```
package pack2;  
class B  
{  
    void test( )  
    {  
        System.out.println("test");  
    }  
    public static void main(String[ ] arg)  
    {  
        test( );  
        System.out.println("Hello world");  
    }  
}
```

Command Prompt

```
D:\intern\modifiers\src>javac -d ../classes pack2/A.java  
  
D:\intern\modifiers\src>javac -d ../classes pack2/A.java pack2/B.java  
pack2\B.java:10: error: non-static method test() cannot be referenced from a static context  
        test( );  
        ^  
1 error  
  
D:\intern\modifiers\src>
```

```
package pack2;  
class C  
{  
    int i;  
    static void test( )  
    {  
        System.out.println(i);  
    }  
}
```

Command Prompt

```
D:\intern\modifiers\src>javac -d ../classes pack2/A.java  
  
D:\intern\modifiers\src>javac -d ../classes pack2/A.java pack2/B.java  
pack2\B.java:10: error: non-static method test() cannot be referenced from a static context  
        test( );  
        ^  
1 error  
  
D:\intern\modifiers\src>javac -d ../classes pack2/C.java  
pack2\C.java:7: error: non-static variable i cannot be referenced from a static context  
        System.out.println(i);  
                        ^  
1 error  
  
D:\intern\modifiers\src>
```

```
package pack2;
class H
{
    void test()
    {
        System.out.println("from test");
    }
    public static void main(String[ ] arg)
    {
        H h1=new H();
        h1.test();
        System.out.println("hello world");
    }
}
```

```
Command Prompt

D:\intern\modifiers\src>javac -d ../classes pack2/A.java

D:\intern\modifiers\src>javac -d ../classes pack2/A.java pack2/B.java
pack2\B.java:10: error: non-static method test() cannot be referenced from a static context
        test( );
        ^
1 error

D:\intern\modifiers\src>javac -d ../classes pack2/C.java
pack2\C.java:7: error: non-static variable i cannot be referenced from a static context
        System.out.println(i);
                        ^
1 error

D:\intern\modifiers\src>javac -d ../classes pack2/H.java

D:\intern\modifiers\src>java -cp ../classes pack2.H
from test
hello world

D:\intern\modifiers\src>
```

```
package pack2;
```

```
class K
```

```
{
```

```
    int i;
```

```
    static
```

```
    {
```

```
        K k1=new K();
```

```
        System.out.println(k1.i);
```

```
    }
```

```
}
```

it cannot be run they have no main method

Command Prompt

```
D:\intern\modifiers\src>javac -d ../classes pack2/K.java
```

```
D:\intern\modifiers\src>_
```

```
package pack2;
class M
{
    int i;
    public static void main(String[ ] arg)
    {
        M m1=new M();
        M m2=new M();
        System.out.println(m1.i);
        m1.i=10;
        System.out.println(m1.i);
        System.out.println(m2.i);
    }
}
```

```
Command Prompt

D:\intern\modifiers\src>javac -d ../classes pack2/K.java

D:\intern\modifiers\src>javac -d ../classes pack2/M.java
pack2\M.java:18: error: class, interface, enum, or record expected
    }
    ^
1 error

D:\intern\modifiers\src>javac -d ../classes pack2/M.java

D:\intern\modifiers\src>java -cp ../classes pack2.M
0
10
0

D:\intern\modifiers\src>
```