

```
package pack1;
class D
{
    public static void test1( )
    {
        System.out.println("From test1");
    }
    public static void main(String[ ] arg)
    {
        System.out.println("Main Begin");
        test1( );
        System.out.println("-----");
        test1( );
        System.out.println("Main End");
    }
}
```

```
D:\>cd app2
D:\app2>cd src
D:\app2\src>javac -d ../classes pack1/A.java
D:\app2\src>cd ..
D:\app2>cd classes
D:\app2\classes>java pack1.A
Hello world
D:\app2\classes>cd ../../intern
D:\intern>cd app1
D:\intern\app1>cd src
D:\intern\app1\src>javac -d ../classes pack1/D.java
D:\intern\app1\src>java -cp ../classes pack1.D
Main Begin
From test1
-----
From test1
Main End
D:\intern\app1\src>
```

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

```
D:\intern\app1\src>javac -d ../classes pack1/E.java
```

```
D:\intern\app1\src>javac -d ../classes pack1/E.java
```

```
pack1\E.java:6: error: cannot find symbol
```

```
    test( );
```

```
    ^
```

```
symbol:   method test()
```

```
location: class E
```

```
1 error
```

```
D:\intern\app1\src>
```

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

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/F.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.F
```

```
from test
```

```
from test
```

```
-----
```

```
from test
```

```
from test
```

```
from test
```

```
from test
```

```
D:\intern\app1\src>_
```

```
package pack1;
class I
{
    static void test( )
    {
        System.out.println("from test begin");
        System.out.println("from test end");
        return;
    }
    public static void main(String[ ] arg)
    {
        test( );
        System.out.println("-----");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/F.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.F
```

```
from test
```

```
from test
```

```
-----
```

```
from test
```

```
from test
```

```
from test
```

```
from test
```

```
D:\intern\app1\src>javac -d ../classes pack1/I.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.I
```

```
from test begin
```

```
from test end
```

```
-----
```

```
D:\intern\app1\src>
```

```
package pack1;
class G
{
    static void test( )
    {
        System.out.println(" test begin");
        if(true)
        {
            System.out.println("from if");
            return;
        }
        System.out.println("test end");
    }
    public static void main(String[ ] arg)
    {
        test( );
        System.out.println("-----");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/G.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.G
```

```
 test begin
```

```
from if
```

```
-----
```

```
D:\intern\app1\src>_
```

```
package pack1;
class H
{
    static void test( )
    {
        System.out.println(" test begin");
        return;
        System.out.println("test end");
    }
    public static void main(String[ ] arg)
    {
        test( );
        System.out.println("-----");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/G.java

D:\intern\app1\src>java -cp ../classes pack1.G
    test begin
from if
-----

D:\intern\app1\src>javac -d ../classes pack1/H.java
pack1\H.java:8: error: unreachable statement
        System.out.println("test end");
        ^
1 error

D:\intern\app1\src>
```

```
package pack1;
class J
{
    public static void main(String[] arg)
    {
        System.out.println(" main begin");
        if(100==100)
        {
            System.out.println("from if");
            return;
        }
        System.out.println("main end");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/J.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.J
```

```
    main begin
```

```
from if
```

```
D:\intern\app1\src>_
```



```
package pack1;
class K
{
    public static void main(String[] arg)
    {
        if(true)
        {
            return;
            System.out.println("from if");
        }
        System.out.println("main end");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/J.java
D:\intern\app1\src>java -cp ../classes pack1.J
    main begin
    from if

D:\intern\app1\src>javac -d ../classes pack1/K.java
pack1\K.java:9: error: unreachable statement
        System.out.println("from if");
        ^
1 error

D:\intern\app1\src>_
```



```
package pack1;
class L
{
    static int test( )
    {
        System.out.println("test");
    }
    public static void main(String[ ] arg)
    {
        System.out.println(" from main");
        test( );
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/L.java
D:\intern\app1\src>java -cp ../classes pack1.L
    from main
    test
D:\intern\app1\src>javac -d ../classes pack1/L.java
pack1\L.java:7: error: missing return statement
        }
        ^
1 error
D:\intern\app1\src>
```

```
package pack1;
class M
{
    static int test( )
    {
        System.out.println("test");
        return 20;
    }
    public static void main(String[ ] arg)
    {
        System.out.println(" from main begin");
        int i=test( );
        System.out.println(i);
        System.out.println("from main end");
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/M.java
```

```
D:\intern\app1\src>java -cp ../classes pack1.M
```

```
    from main begin
```

```
test
```

```
20
```

```
    from main end
```

```
D:\intern\app1\src>
```

```
package pack1;
class N
{
    static int test( )
    {
        System.out.println(" from test");
        return 10;
    }
    public static void main(String[ ] arg)
    {
        int i=test( );
        int j=10 + test( );
        System.out.println(test( ) );
        System.out.println(i);
        System.out.println(j);
        System.out.println(i+j+test( ) );
    }
}
```

Command Prompt

```
D:\intern\app1\src>javac -d ../classes pack1/M.java
D:\intern\app1\src>java -cp ../classes pack1.M
    from main begin
test
20
    from main end
D:\intern\app1\src>javac -d ../classes pack1/N.java
D:\intern\app1\src>java -cp ../classes pack1.N
    from test
    from test
    from test
10
10
20
    from test
40
D:\intern\app1\src>
```