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

```
package pack1;
class B
{
  static void test()
   {
      System.out.println("from test");
   }
}
```

C - Notepad

File Edit Format View Help

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

Command Prompt

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

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

D:\intern\modifers\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\modifers\src>java -cp ../classes pack1.C
10
from test

D:\intern\modifers\src>
```

Ln 1, Col 1   100%   Windows (CRLF)   UTF-8

```
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");
   }
}
```

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

C:\Users\manju>D:

D:\>cd intern

D:\intern>cd modifers

D:\intern\modifers>cd src

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

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

D-main
E-main-end

D:\intern\modifers\src>

```
package pack1;
class F
{
    static int i;
    static void test( )
    {
        System.out.println("from test:"+i);
    }
}
```

G - Notepad

File Edit Format View Help

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

Ln 17, Col 6   100%   Windows (CRLF)   UTF-8

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 modifers

D:\intern\modifers>cd src

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

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

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

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

D:\intern\modifers\src>
```

B - Notepad

File Edit Format View Help

```
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\modifers\src>javac -d ../classes pack2/A.java

D:\intern\modifers\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\modifers\src>
```

Ln 1, Col 1   100%   Windows (CRLF)   UTF-8

C - Notepad

File   Edit   Format   View   Help

```
package pack2;
class C
{

    int i;
    static void test( )
    {

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

Command Prompt

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

D:\intern\modifers\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\modifers\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\modifers\src>
```

Ln 1, Col 1   100%   Windows (CRLF)   UTF-8

```
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\modifers\src>javac -d ../classes pack2/A.java

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

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

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

D:\intern\modifers\src>

M - Notepad

File Edit Format View Help

```
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);

    }
}
```

Ln 18, Col 4   100%   Windows (CRLF)   UTF-8

Command Prompt

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

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

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

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

D:\intern\modifers\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);


  }
}
```

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

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

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

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

D:\intern\modifers\src>
```