Day 6

Static initialization block

Static initialization block will executes automatically before excueting the main method.

A

File Edit View

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

Command Prompt

```
F:\intern\class>cd..

F:\intern>cd..

F:\>cd intern

F:\intern>cd src

F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
from SIB
main

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i;
  static
   {
      i=2;
   }
    public static void main(String[] args)
    {
      System.out.println(i);
    }
}
```

Command Prompt

```
F:\intern\src>cd..

F:\intern>cd..

F:\>cd..

F:\>cd intern

F:\intern>cd src

F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
2

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static
  {
    System.out.println("from SIB1");
  }
   public static void main(String[] args)
  {
    System.out.println("main");
  }
   static
  {
   System.out.println("from SIB2");
  }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.22000.2176]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>cd..

C:\Users>F:

F:\>cd intern

F:\intern>cd src

F:\intern\src>javac -d ../class pack1/A.java
pack1\A.java:6: error: unclosed string literal
    System.out.println("from SIB1
                       ^
1 error

F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
from SIB1
from SIB2
main

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i=1;
  static
   {
      i=20;
   }
    public static void main(String[] args)
    {
      System.out.println(i);
    }
}
```

Command Prompt

```
F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
20

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i=test();
  static
   {
    System.out.println("from SIB");
   }
    static int test()
    {
      System.out.println("test method");
      return 10;
    }
    public static void main(String[] args)
    {
      System.out.println("done");
      System.out.println(i);
    }
     static
     {
      System.out.println("from SIB2");
     }

}
```

Command Prompt

```
F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd ..

F:\intern>cd class

F:\intern\class>java pack1.A
test method
from SIB
from SIB2
done
10

F:\intern\class>
```

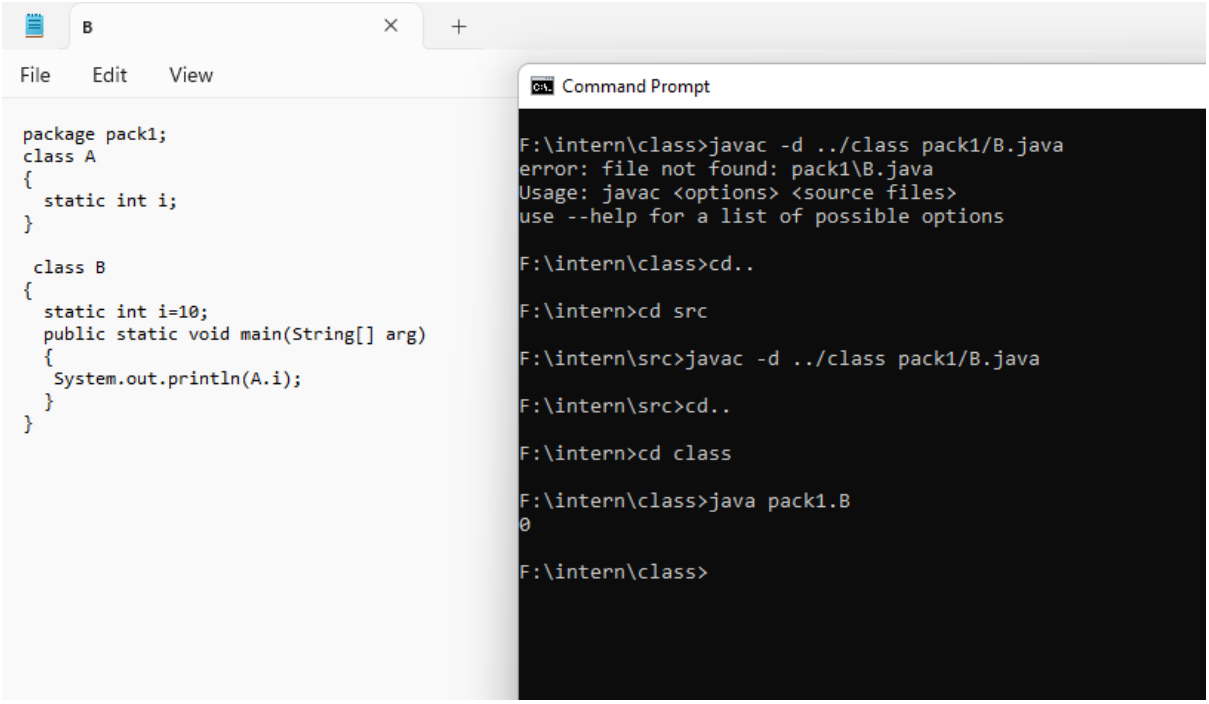
A

File Edit View

```
package pack1;
class A
{
  static int i=test();
  static
   {
    System.out.println("from SIB begin");
    main(null);
    System.out.println("from SIB end");
   }
    static int test()
    {
      System.out.println("test method begin");
      main(null);
      System.out.println("test end method");
      return 20;
    }
    public static void main(String[] args)
    {
      System.out.println("main"+i);
     }

}
```

Command Prompt

```
F:\intern\class>cd..

F:\intern>cd src

F:\intern\src>javac -d ../class pack1/A.java

F:\intern\src>cd ..

F:\intern>cd class

F:\intern\class>java pack1.A
test method begin
main0
test end method
from SIB begin
main20
from SIB end
main20

F:\intern\class>
```


B
File
Edit
View
package pack1;
class A
{
static int i;
}
class B
{
static int i=10;
public static void main(String[] arg)
{
System.out.println(A.i);
}
}
Command Prompt
F:\intern\class>javac -d ../class pack1/B.java
error: file not found: pack1\B.java
Usage: javac <options> <source files>
use --help for a list of possible options
F:\intern\class>cd..
F:\intern>cd src
F:\intern\src>javac -d ../class pack1/B.java
F:\intern\src>cd..
F:\intern>cd class
F:\intern\class>java pack1.B
0
F:\intern\class>