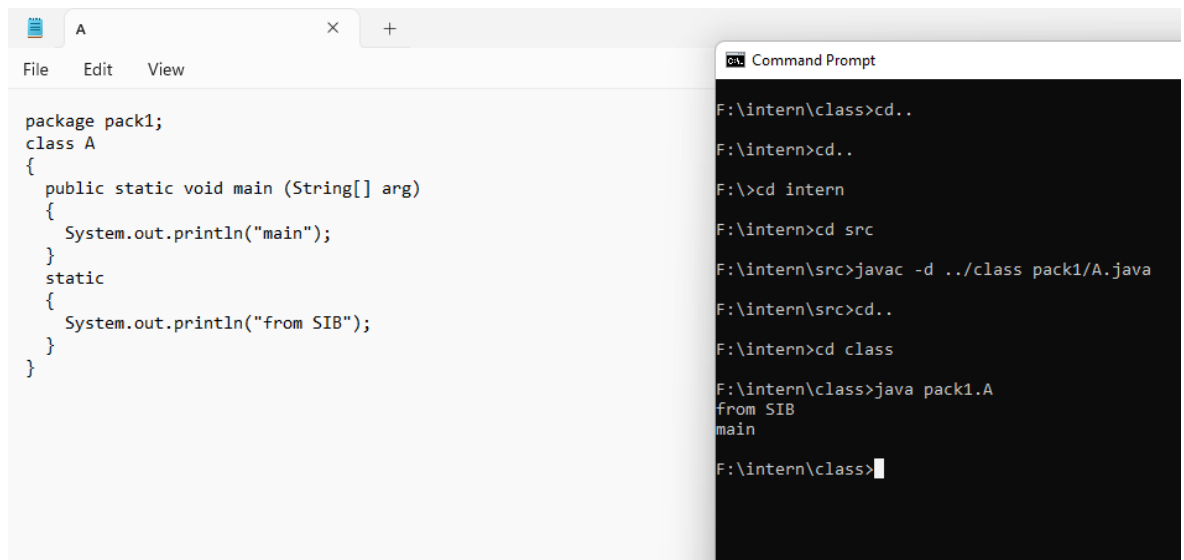


Day 6

Static initialization block

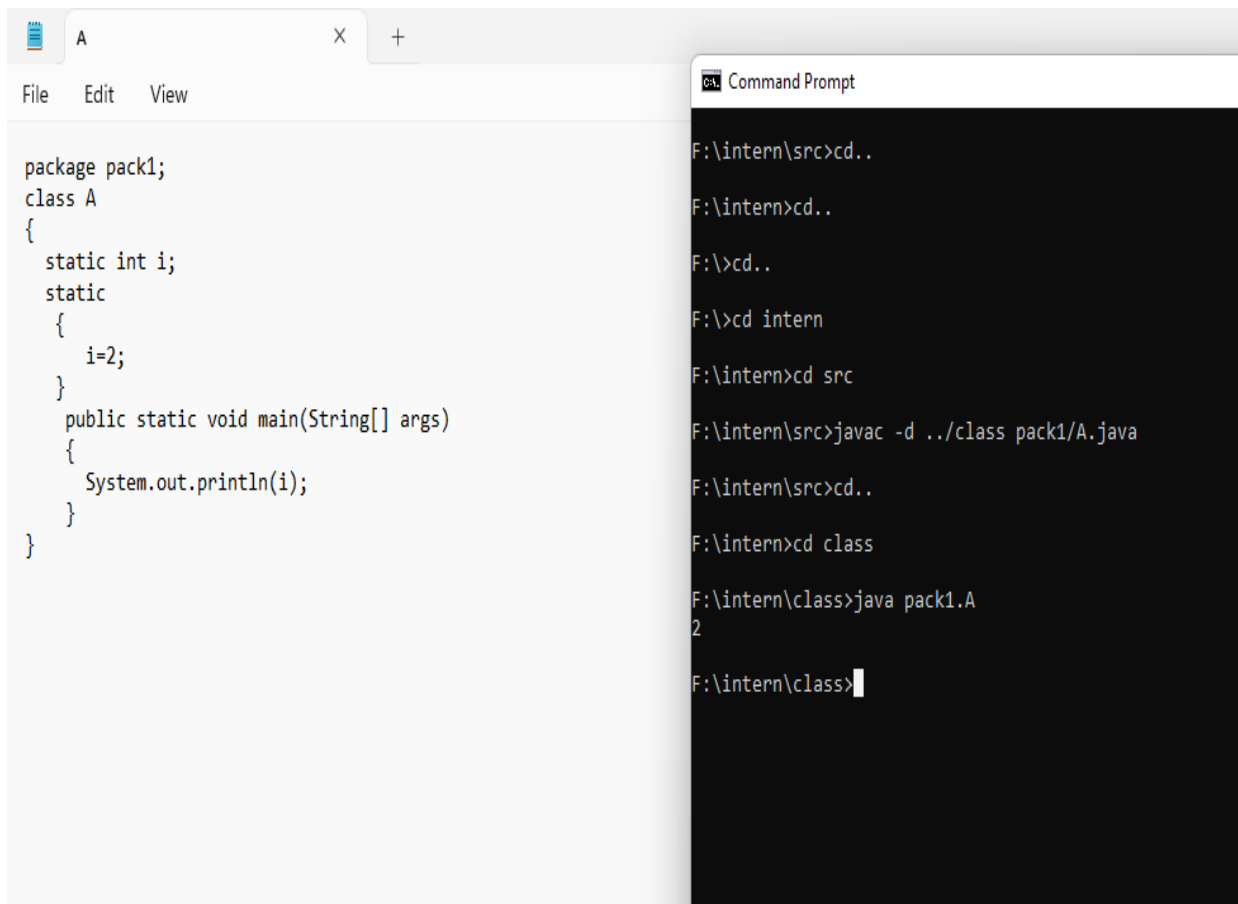
Static initialization block will execute automatically before executing the main method.



The screenshot shows an IDE window with a Java file named 'A'. The code defines a package 'pack1' and a class 'A' with a 'main' method. A static block is used to print 'from SIB' before the 'main' method prints 'main'. The Command Prompt shows the execution path: navigating to 'F:\intern\src', compiling 'pack1/A.java' with 'javac', and running it with 'java pack1.A', which outputs 'from SIB' and 'main'.

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

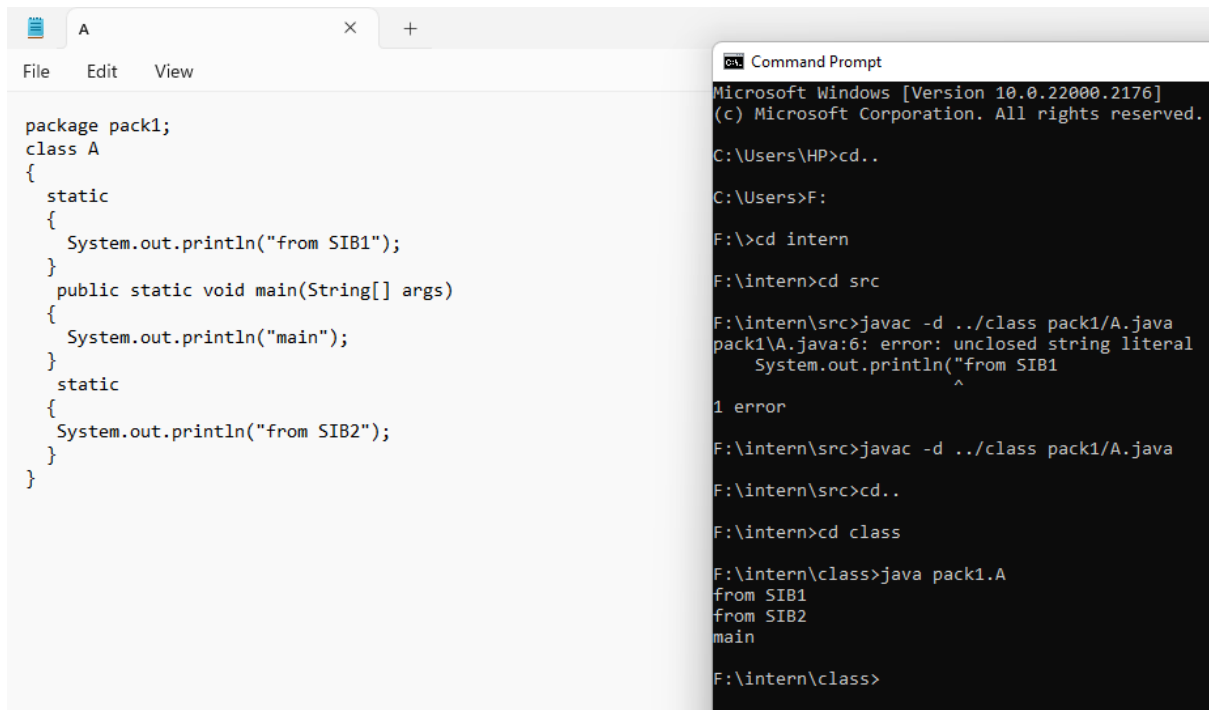
```
F:\intern\class>cd..
F:\intern>cd..
F:\>cd intern
F:\intern>cd src
F:\intern\src>javac -d ../class pack1/A.java
F:\intern\src>cd..
F:\intern>cd class
F:\intern\class>java pack1.A
from SIB
main
F:\intern\class>
```



The screenshot shows an IDE window with a Java file named 'A'. The code defines a package 'pack1' and a class 'A' with a static variable 'i' initialized to 2 in a static block. The 'main' method prints the value of 'i'. The Command Prompt shows the execution path: navigating to 'F:\intern\src', compiling 'pack1/A.java' with 'javac', and running it with 'java pack1.A', which outputs '2'.

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

```
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>
```

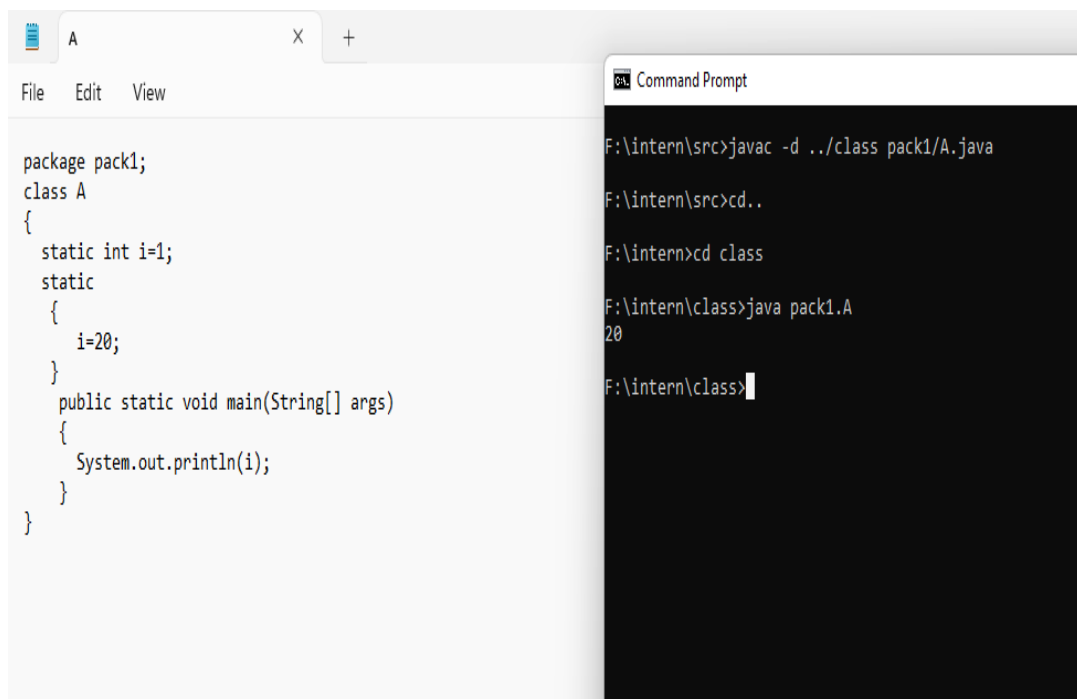


The screenshot shows an IDE window with a Java file named 'A' and a Command Prompt window. The Java code in 'A' defines a package 'pack1' and a class 'A' with two static blocks and a main method. The first static block prints 'from SIB1', and the second prints 'from SIB2'. The main method prints 'main'. The Command Prompt shows the following commands and output:

```
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>
```



The screenshot shows an IDE window with a Java file named 'A' and a Command Prompt window. The Java code in 'A' defines a package 'pack1' and a class 'A' with a static variable 'i' initialized to 1, a static block that increments 'i' to 20, and a main method that prints the value of 'i'. The Command Prompt shows the following commands and output:

```
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>
```

