Day 5

Global variables

Global variables are declared inside the class and top of all the main method.

A

File Edit View

```
package pack1;
class A
{
  static int i;//global variable
  public static void main(String[] arg)
  {
     System.out.println(i);
  }
}
```

- Whenever declare static variable for integer default value is 0.
- Static members are executing first from top to bottom. Then main method executes.

Untitled A

File Edit View

```
package pack1;
class A
{
  static int i;
  public static void main(String[] arg)
  {
     System.out.println(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
0

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i=0;
  public static void main(String[] arg)
  {
     System.out.println("a:"+i);
     i=10;
     System.out.println("b:"+i);
     i=20;
     System.out.println("c:"+i);

  }
}
```

Command Prompt

```
Microsoft Windows [Version 10.0.22000.2176]
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C:\Users\HP>f:

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
a:0
b:10
c:20

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i=0;
  public static void main(String[] arg)
  {
     int i=20;
     System.out.println(i);
     i=20;
     System.out.println(A.i);

  }
}
```

Command Prompt

```
F:\intern>cd src

F:\intern\src>javac -d ../class pack1/A.java
pack1\A.java:10: error: cannot find symbol
     System.out.println(N.i);
                        ^
  symbol:   variable N
  location: class A
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
20
0

F:\intern\class>
```

A

File Edit View

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

Command Prompt

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

C:\Users\HP>F:

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 test
10
10

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  static int i;
  static double j;
  static boolean k;
  public static void main(String[] arg)
  {
     System.out.println(i);
     System.out.println(j);
     System.out.println(k);
   }
}
```

Command Prompt

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

C:\Users\HP>F:

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
0
0.0
false

F:\intern\class>
```

A

File Edit View

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

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

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
from test10

F:\intern\class>java pack1.A
from test10

F:\intern\class>
```

- Return statement should be a last statement in the block.

A

File Edit View

```
package pack1;
class A
{
  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

```
F:\intern\class>java pack1.A
test begin
from if
-------

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
test begin
from if
-------

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  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

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

F:\intern\src>cd..

F:\intern>cd class

F:\intern\class>java pack1.A
from test
from test
from test
10
10
20
from test
40

F:\intern\class>
```

A

File Edit View

```
package pack1;
class A
{
  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 method");
    }
 }
```

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 main begin
test
20
from main method

F:\intern\class>
```