

Dt : 4/8/2023

Ex-1:(Demonstrating Static block in MainClass)

Program : DemoBlock1.java

import java.util.Scanner;

class DemoBlock1

{

static int k;

static

{

System.out.println("====Static block====");

System.out.println("The value k:"+k);

}

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter the value for k:");

k = s.nextInt();

System.out.println("=====main()=====");

System.out.println("The value k:"+k);

}

}

o/p:

====Static block====

The value k:0

Enter the value for k:

123

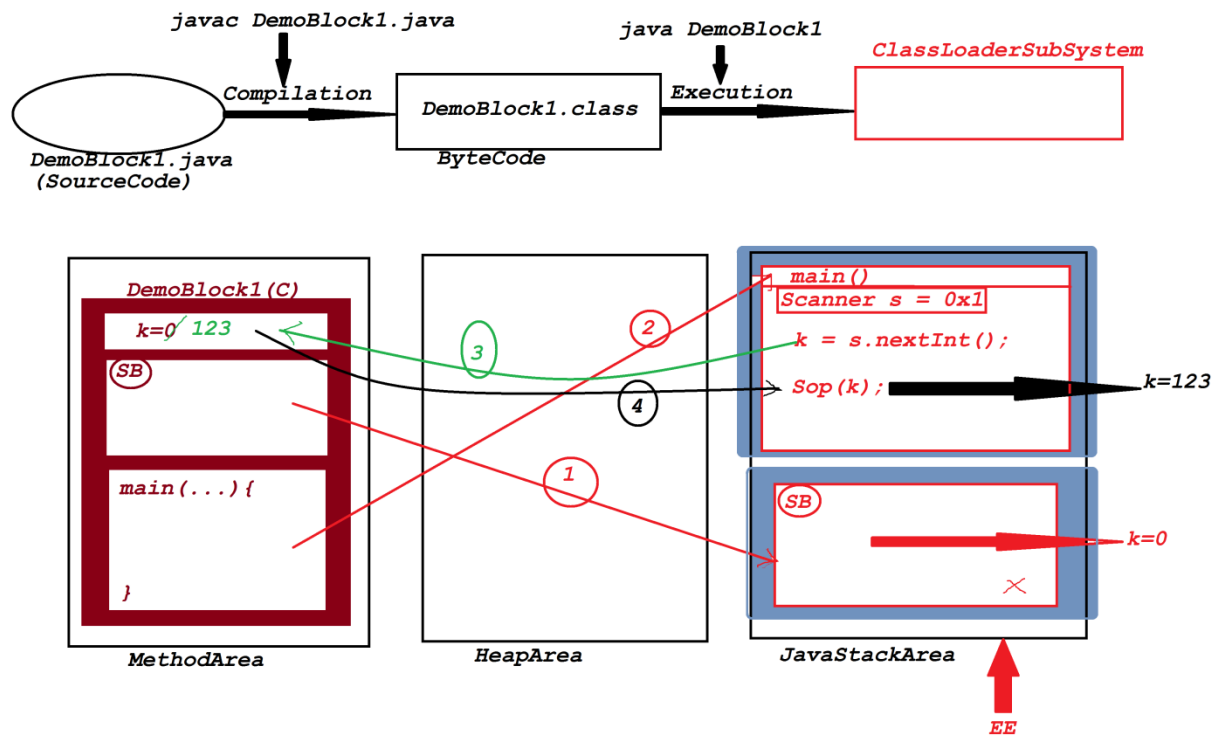
=====main()=====

The value k:123

Execution flow of above program:

ClassFiles:

DemoBlock1.class(MainClass)



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Ex-2:(Demonstrating Static block in SubClass)

Program : DemoBlock2.java

import java.util.Scanner;

class BTest

{

static int z;

static

{

System.out.println("====SubClass-Static Block====");

System.out.println("The value z:"+z);

}

}

class DemoBlock2

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter the value for z:");

BTest.z = s.nextInt();

System.out.println("====main()====");

```
System.out.println("The value z:"+BTest.z);
```

```
}
```

```
}
```

o/p:

Enter the value for z:

123

====SubClass-Static Block====

The value z:0

====main()====

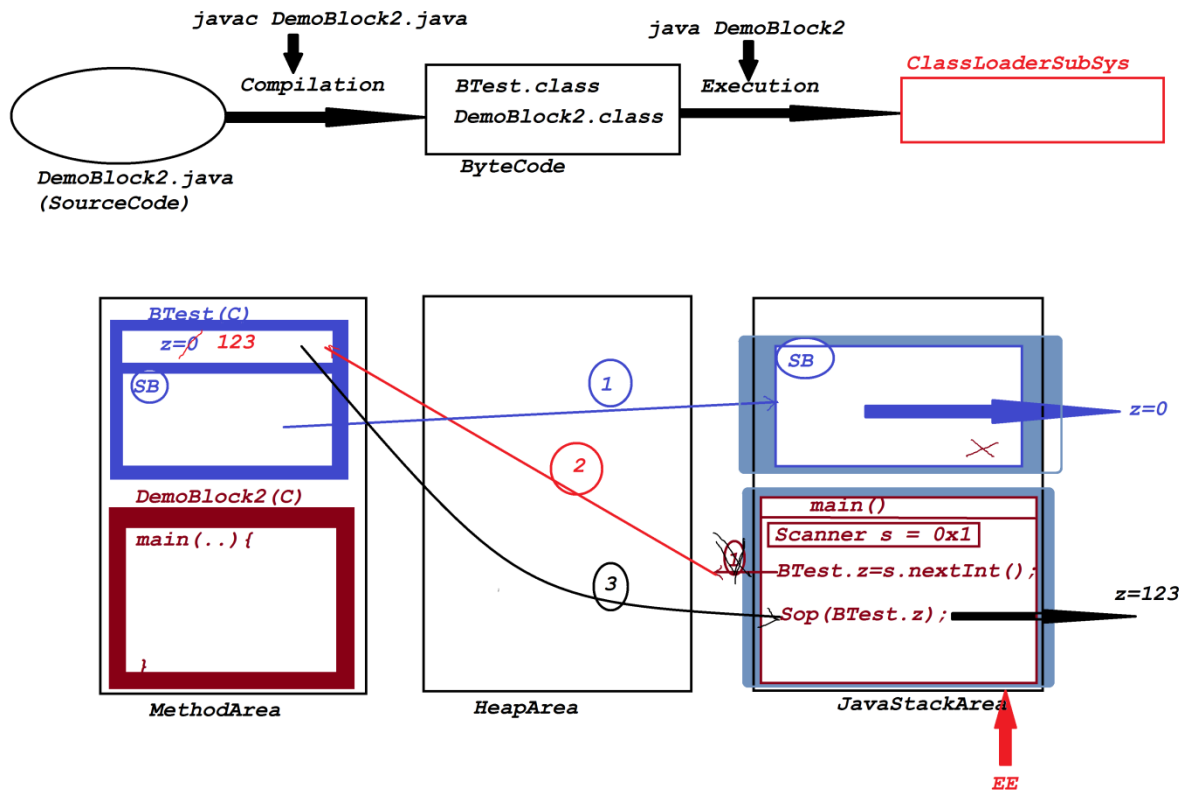
The value z:123

Execution flow of above program:

ClassFiles:

BTest.class

DemoBlock2.class(MainClass)



Note:

=>static-block in MainClass will have highest priority in execution than `main()`-method,because the blocks will have highest priority in execution than methods.

faq:

can we execute Java Program with `main()` method?

=>Yes,we can execute JavaProgram without `main()` method upto Java6 version,but

not possible from Java7 version onwards.

=====

2.NonStatic blocks(Instance blocks):

=>The blocks which are declared without "static" keyword are known as NonStatic

blocks or Instance blocks

syntax:

```
{  
//set-of-statements  
}
```

Execution behaviour of Instance blocks:

=>Instance blocks are executed while Object creation process.

=>Instance block executes for all multiple Object creations.

=>Instance blocks can access Instance Variables and Static Variables
