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Class, Block, Methods and Variables

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ER: **OOPS CONCEPT**

sed with class, variable, method and block. Static members belong to the
c instance, this means if you make a member static, you can access it
e an example to understand this:

ethod myMethod(), we can call this method without any object because
er static it becomes class level. If we remove the static keyword and make it
need to create an object of the class in order to call it.

common for all the instances(objects) of the class but non-static members
n instance of class.

```
e

method
()

ln("myMethod");


ain(String[] args)

 that we are calling this
out creating any object.
```

AD

nitializing the static variables.This block gets executed when the class is
 class can have multiple Static blocks, which will execute in the same
have been written into the program.

static block

 the static variables were intialized before we accessed them in the main

```
yword in Java";

in(String args[])

("Value of num: "+num);
("Value of mystr: "+mystr);
```

```
eyword in Java
```

le Static blocks

atic blocks work in Java. They execute in the given order which means the
s before second static block. That’s the reason, values initialized by first
second block.

AD

```
("Static Block 1");



("Static Block 2");



n(String args[])

("Value of num: "+num);
("Value of mystr: "+mystr);
```

bles

non to all the instances (or objects) of the class because it is a class level
you can say that only a single copy of static variable is created and shared
of the class. Memory allocation for such variables only happens once when
memory.

also known as Class Variables.

ariables, such variables can be accessed directly in static and non-static

ariables can be accessed directly in Static method

ethod disp() and two static variables var1 and var2. Both the variables are
static method.

```
hod

("Var1 is: "+var1);
("Var2 is: "+var2);

n(String args[])
```

ariables are shared among all the instances of class

ariable is non-static and integer variable is Static. As you can see in the
ic variable is different for both the objects but the static variable is shared
eason the changes made to the static variable by object ob2 reflects in both

```
able

ariable


in(String args[])
```

```
= new JavaExample();
= new JavaExample();
les can be accessed directly without
. Just to demonstrate that static variables
 am accessing them using objects so that
that the changes made to static variables
, reflects when we access them using other


value to static variable using object ob1

ject1";
rwrite the value of var1 because var1 has a single
mong both the objects.



ject2";
ln("ob1 integer:"+ob1.var1);
ln("ob1 String:"+ob1.var2);
ln("ob2 integer:"+ob2.var1);
ln("ob2 STring:"+ob2.var2);
```

r: **Java – static variable**

iods

ss class variables(static variables) without using object(instance) of the
c methods and non-static variables can only be accessed using objects.
ccessed directly in static and non-static methods.

 by return type, followed by method name.

```
d_name();
```

nethod main is accessing static variables without object

```
ginnersbook";
thod
in(String args[])

n("i:"+i);
n("s:"+s);
```

nethod accessed directly in static and non-static method

```
innersbook";




"i:"+i);
"i:"+s);





lled in non-static method




n(String args[])

j = new JavaExample();
have object to call this non-static method



lled in another static method
```

od vs non-static Method in Java

tic only if it is a nested class.

doesn't need reference of Outer class
ot access non-static members of the Outer class

oints with the help of an example:

le

```
 str = "BeginnersBook";


Class{
hod
() {

e the str variable of outer class
 then you will get compilation error
 nested static class cannot access non-
bers of the outer class.

intln(str);



in(String args[])
```

```
ance of nested class we didn't need the outer
 but for a regular nested class you would need
nstance of outer class first

stedClass obj = new JavaExample.MyNestedClass();
```

Next ❯

ays

0, 2016 AT 4:43 AM

ılanation of these all topic ……..so lots of thank u…….

2016 AT 5:18 PM

ɔur work has been really helpful for my interview. Simple yet thorough.

says

016 AT 5:47 AM

a lot of tutorials/lectures but this is so easy and comprehensible. Thank

Biswal says

2016 AT 6:05 AM

tutorial.

when we can access the class variable via class also why we need to t to access it. can you please explain in details.

says

Y 8, 2017 AT 4:49 AM

ving all your tutorials and they are actually a beginner's guide for their

mention a correction in the above post:
nder static methods, you have created static variables and then using
access them. I think the commented line should instead be "Static
sed without using class object" and following lines should be:
tln(Example5.i);
tln(Example5.s);

apon says

4, 2017 AT 9:37 AM

e static block example why could not show the first static block's value?

n says

2017 AT 1:53 AM

aded by JVM then static block executed or class been called in any
tatic block executed ?

vill not be published. Required fields are marked *

Java Tutorial