

CONCEPT OF STATIC:

STATIC VARIABLE:

Static data member when a variable is declared with static keyword then it is known as static variable. Static variable is also known as class level variable whereas non-static variable is known as instance variable. Static variable is available as per the class basis whereas non-static variable is available as per the object basis, it means a static variable has only one copy for the entire class and all the objects of the class share a single copy of static variable but a non-static variable has a separate copy for each object.

STATIC MEMBER FUNCTION:

Where a function is preceded with static keyword then it is known as static function. A static function can directly access the static variable. A static function cannot access a non-static variable directly. In order to access the non-static variable, the object of the class is created within the static function. A non-static function can access static variables as well as non-static variables. Static variables and static functions can be directly accessed by the help of the class name; they can also be accessed by the help of an object.

STATIC BLOCK:

When a block is declared with static keyword without any name then it is known as static block. In a Java program, the static block is executed first by the JVM. If a class contains static and main() methods, then the static block is executed first, followed by the main function.

```
1  /*STATIC KEYWORD*/
2  public class JVP26 {
3
4      static String STMT = "THIS IS STATIC VARIABLE"; // static variable
5
6      static void get() {
7          System.out.println("THIS IS STATIC METHOD"); // static method
8      }
9
10     static // STATIC BLOCK
11     {
12         System.out.println("THIS IS STATIC BLOCK");
13     }
14
15     public static void main(String args[]) {
16
17         System.out.println(STMT);
18         JVP26.get();
19     }
20 }
```

Problems @ Javadoc Declaration Console

<terminated> JVP26 [Java Application] C:\Program Files\Java\jre1.8.0_291\bin\javaw.exe (Mar 10, 2022, 6:50:09 PM –
THIS IS STATIC BLOCK
THIS IS STATIC VARIABLE
THIS IS STATIC METHOD