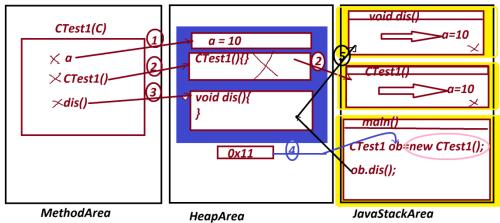
```
Dt: 6/9/2022
*imp
Constructors in Java:
 =>Constructor is a method having the same name of the
class and executed while object creation process, because
the Con_call is available in Object creation syntax
attached with 'new' keyword.
Note:
=>while declaring constructor we must not use return_type
because Constructor having Class_return_type.
structure of Constructor:
Class_name(para_list)
{
//Con_Body
 =>Based on parameters the constructors are categorized
into two types:
   (a)Constructors without parameters
   (b)Constructors with parameters
(a)Constructors without parameters:
  =>The Constructors which are declared without
```

parameters are known as 0-parameter constructors or

```
Ex : DemoCon1.java
class CTest1 //SubClass
{
       int a=10;
       CTest1()
      {
              System.out.println("====Constructor CTest1()==
              System.out.println("The value a:"+a);
      }
  void dis()
      {
              System.out.println("====Instance method dis()====");
              System.out.println("The value a:"+a);
      }
}
class DemoCon1 //MainClass
      public static void main(String[] args)
       {
              CTest1 ob = new CTest1();//Con_Call
              ob.dis();//method_call
              ob.dis();//method_call
```

```
ob.dis();//method_call
              ob.dis();//method_call
       }
}
o/p:
====Constructor CTest1()====
The value a:10
====Instance method dis()====
The value a:10
Execution flow of above program:
ClassFiles:
 CTest1.class
 DemoCon1.class(MainClass)
                                                               void dis()
                CTest1(C)
                                       a = 10
```



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faq:

```
wt is the diff b/w
 (i)Constructor
 (ii)Instance methods
=>Constructor is executed only once while object creation
process, but Instance method is executed any number of
times after Object creation process.
faq:
wt is the diff b/w
 (i)Instance block
 (ii)Constructor
=>Both components are executed while object creation
process, but Instance block will have highest priority
in execution than Constructors
faq:
wt is the diff b/w
 (i)Static block
 (ii)Constructor
=>Static block is executed only once with highest
priority when the class is used for first_time.
```

=>Constructor is also executed only once while

```
object creation process.
_____
Ex: DemoCon2.java
class CTest2 //SubClass
{
      int a=10;
      static int b=20;
 static
      {
            System.out.println("====Static block=
            System.out.println("The value b:"+b);
      }
      {
            System.out.println("====Instance block====");
            System.out.println("The value a:"+a);
            System.out.println("The value b:"+b);
      CTest2()
      {
            System.out.println("====Constructor CTest2()====");
            System.out.println("The value a:"+a);
```

```
System.out.println("The value b:"+b);
      }
 void dis()
      {
              System.out.println("====Instance method dis()====");
              System.out.println("The value a:"+a);
              System.out.println("The value b:"+b);
      }
}
class DemoCon2 //MainClass
{
      public static void main(String[] args)
      {
              CTest2 ob = new CTest2();//Con_Call
              ob.dis();//method_call
      }
}
o/p:
====Static block====
The value b:20
====Instance block====
The value a:10
The value b:20
```

====Constructor CTest2()====
The value a:10
The value b:20
====Instance method dis()====
The value a:10
The value b:20
=======================================
faq:
define default Constructor?
=>The constructor without parameters which is added by
the compiler at compilation stage is known as default
constructor.
faq:
In wt situation default constructor is added?
=>Compiler at compilation stage finds any class
declared without constructors then default constructor
is added.
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