

Dt : 1/8/2023

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Constructors in Java:

=>Constructor is a method having same name of class and executed while object creation process,because constructor call is available in Object creation syntax attached with "new" keyword.

=>while declaring constructors we must not use return_type,because the constructors

will have Class_return_type.

structure of Constructor:

```
Class_name(para_list)
```

```
{
```

```
//method_body
```

```
}
```

=>Based on parameters the constructors are categorized into two types:

- 1.Constructors without parameters
- 2.Constructors with parameters

1.Constructors without parameters:

=>The constructors which are declared without parameters are known as 0-parameter

Constructors or Constructors without parameters.

Ex-program : DemoCon1.java

```
import java.util.Scanner;
```

```
class Display
```

```
{
```

```
    int x,y;
```

```
    static Display()
```

```
    {
```

```
        System.out.println("****Constructor-Display()****");
```

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

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

```
    }
```

```
    void dis()
```

```
    {
```

```
        System.out.println("****Method-dis()****");
```

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

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

```
    }
```

```
}
```

```
class DemoCon1
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        Scanner s = new Scanner(System.in);
```

```
        Display d = new Display();//Con_call
```

```
        System.out.println("Enter the value of x:");
```

```
        d.x = s.nextInt();
```

```
        System.out.println("Enter the value of y:");
```

```
        d.y = s.nextInt();
```

```
        d.dis();//method_call
```

```
        d.dis();//method_call
```

```
        d.dis();//method_call
```

```
        d.dis();//method_call
```

```
    }
```

```
}
```

o/p:

****Constructor-Display()****

The value x:0

The value y:0

Enter the value of x:

12

Enter the value of y:

13

****Method-dis()****

The value x:12

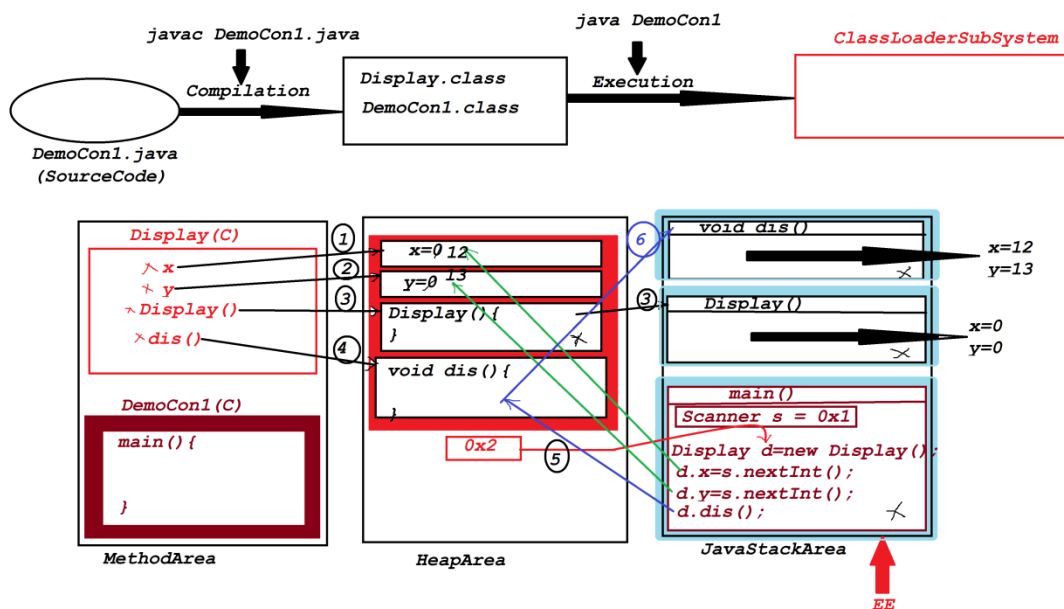
The value y:13

Execution flow of above program:

ClassFiles:

Display.class

DemoCon1.class(MainClass)



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faq:

wt is the diff b/w

(i)Constructor

(ii)Instance method

=>Constructor executed while object creation,but Instance method is executed after

Object creation.

=>Constructor executes only once while Object creation process,but Instance method

can be executed any number of times after Object creation.

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faq:

define static constructor in Java?

=>There is no concept of static constructor in Java,because constructor means executed while object creation process and cannot be class-level-component.

(Compilation Error)

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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?

=>when compiler finds any class without any constructors then compiler will add default Constructor.

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