

ajay@bhosle: ~/java_2k23/java_dsa/Java/DailyCodes/OOP/Constructor



```
/**  
class Demo{  
    int x=10;                //non static variable  
    static int y=20;         // static variable  
  
    /*******Block*****/  
    static{  
        System.out.println("In static block-1");    //In static block-1  
    }  
    {  
        System.out.println("In Non Static block-1");    //In Non static block-1  
    }  
  
    /*******Constructor*****/  
    /*  
    static Demo(){  
        System.out.println("In static Demo-1");    // Error:modifier static not allowed here  
    }  
    */  
    Demo(){                //internally -> Demo(Demo this)    // No argument constructor & class name Constructor name same  
        System.out.println("In Constructor Demo-1");  
    }  
}
```

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```
Demo(int x){                                //internally -> Demo(Demo , this , x)

    System.out.println(this.x);
}

Demo(Demo ajay){                            // internally -> Demo(Demo , obj1 reference )

    System.out.println("In para");          // In para
    System.out.println(ajay);              // obj1 reference
    System.out.println(ajay.x);            //10
}

/*****Method(static and Non-Static)*****/

static void fun(){

    System.out.println("Static method fun");    //static method fun
}

void gun(){

    System.out.println("Non static method fun");    // Non static method fun
}

/*****Main Method*****/

public static void main(String [] args){

    Demo obj=new Demo();    // internally -> Demo(obj)

    Demo obj1=new Demo(10);    // internally -> Demo(obj1 , x)

    Demo obj2=new Demo(obj1);    // internally -> Demo(obj1)
```

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```
fun();
```

```
obj.gun();           // internally ->  gun(obj);
```

```
}
```

```
}
```

```
/*
```

```
*/
```

```
*****Output*****
```

Output:

In static block-1

In Non Static block-1

In Constructor Demo-1

In Non Static block-1

10

In Non Static block-1

In para

Demo@d716361

10

Static method fun

Non static method fun

```
*****Sequence*****
```

Sequence:

1) static variable

2) static block

3) static methods

4) instance variable

5) instance block

6) Constructor

7) instance methods & static methods -> depend on call function



-- INSERT --

100,1

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