

# **Assignment - 17**

## **(Constructors In Java)**

### **1. What is a Constructor?**

Ans: Constructors are special methods that are used to initialise a piece of code at the time of object creation. Constructors are used when you want to initialise some variables at the time of objects creation which makes the program efficient.

### **2. What is a Constructor Chaining?**

Ans: Constructor chaining is the process of calling a sequence of Constructors, that is calling one constructors from another constructors. This can be done with the help of "this()" and "super()" methods.

### **3. Can we call a Subclass constructor from a SuperClass constructor?**

Ans: No you can not call a subclass constructor from a SuperClass Constructor.

### **4. What happens if you keep a return type for a Constructor?**

Ans: if you keep a return type for a Constructor then it will be considered as a method. This is how a method and a Constructor is distinguished.

### **5. What is No-Arg Constructor?**

Ans: No-Arg Constructor is a type of Constructor in which is zero parameterized, which means that there is no parameters in the constructor.

### **6. How is a No-Argument Constructor different from the default Constructors?**

Ans: If we do not create any constructor, the Java compiler automatically create a no-arg constructor during the execution of the program.

No-Arg Constructor is a type of Constructor which does not accept any arguments., which you create by yourself.

### **7. When do we need Constructor Overloading?**

Ans: The constructors are overloaded to initialize the objects of a class in different ways. This allows us to initialize the object with either default values or used given values. If data members are not initialized then program may give unexpected results.

### **8. What is a default constructor explain with example?**

Ans: If we do not create any constructor, the Java compiler automatically create a no-arg constructor during the execution of the program. This automatically generated Constructor is called default Constructors.

Ex:-

```
class Demo {  
    private int a;  
    private int b;  
    void disp(){  
        System.out.println(a);  
        System.out.println(b);  
    }  
}  
class Main{  
    public static void main(String [] args){  
        Demo d = new Demo();  
        d.disp();  
    }  
}
```

