# Scala Constructor

In scala, constructor is not special method. Scala provides primary and any number of auxiliary constructors. We have explained each in details in the following example.

### Scala Default Primary Constructor

In scala, if you don't specify primary constructor, compiler creates a constructor which is known as primary constructor. All the statements of class body treated as part of constructor. It is also known as default constructor.

Scala Default Primary Constructor Example

```
class Student{

println("Hello from default constructor");

}
```

Output:

```
Hello from default constructor
```

### Scala Primary Constructor

Scala provides a concept of primary constructor with the definition of class. You don't need to define explicitly constructor if your code has only one constructor. It helps to optimize code. You can create primary constructor with zero or more parameters.

Scala Primary Constructor Example

```
class Student(id:Int, name:String){

   def showDetails(){

      println(id+" "+name);

   }

}

object MainObject{
```

```
  def main(args:Array[String]){
    var s = new Student(101,"Rama");
    s.showDetails()
  }
}
```

Output:

101 Rama

### Scala Secondary (auxiliary) Constructor

You can create any number of auxiliary constructors in a class. You must call primary constructor from inside the auxiliary constructor. this keyword is used to call constructor from other constructor. When calling other constructor make it first line in your constructor.

Scala Secondary Constructor Example

```
class Student(id:Int, name:String){
  var age:Int = 0
  def showDetails(){
    println(id+" "+name+" "+age)
  }
  def this(id:Int, name:String,age:Int){
    this(id,name)      // Calling primary constructor, and it is first line
    this.age = age
  }
}
object MainObject{
  def main(args:Array[String]){
    var s = new Student(101,"Rama",20);
```

```
        s.showDetails()
    }
}
```

Output:

```
101 Rama 20
```

Scala Example: Constructor Overloading

In scala, you can overload constructor. Let's see an example.

```
class Student(id:Int){
    def this(id:Int, name:String)={
        this(id)
        println(id+" "+name)
    }
    println(id)
}
object MainObject{
    def main(args:Array[String]){
        new Student(101)
        new Student(100,"India")
    }
}
```

Output:

```
101
100
100 India
```