

# ABESIT CRC-Training

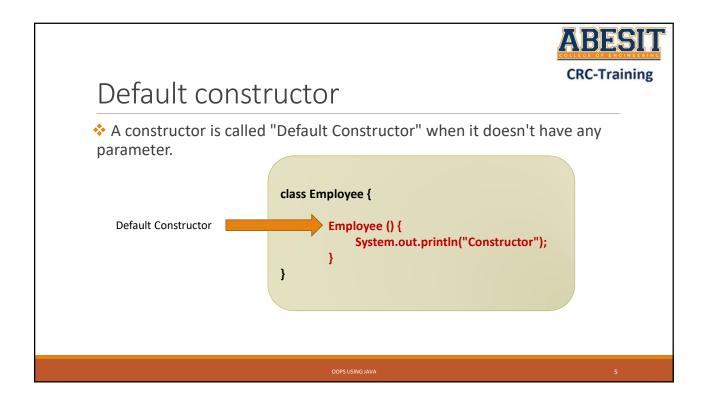
# Types of Java constructors

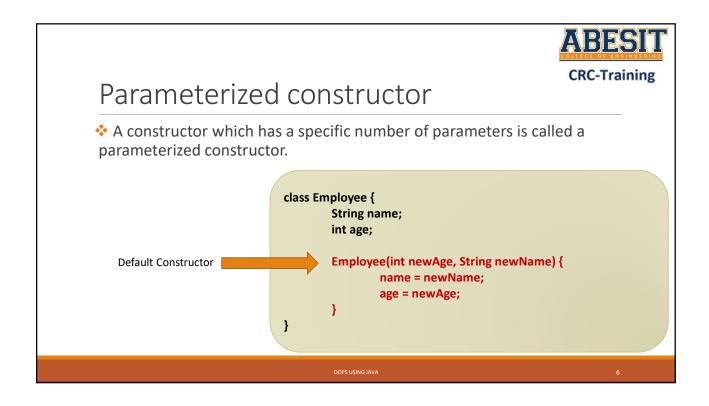
There are two types of constructors in Java:

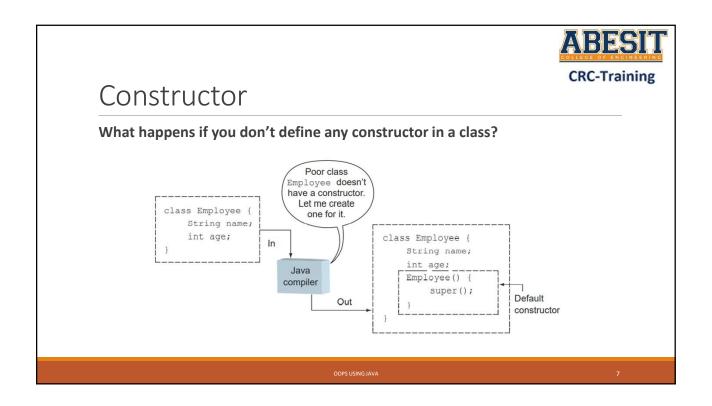
- Default constructor (no-arg constructor)
- Parameterized constructor

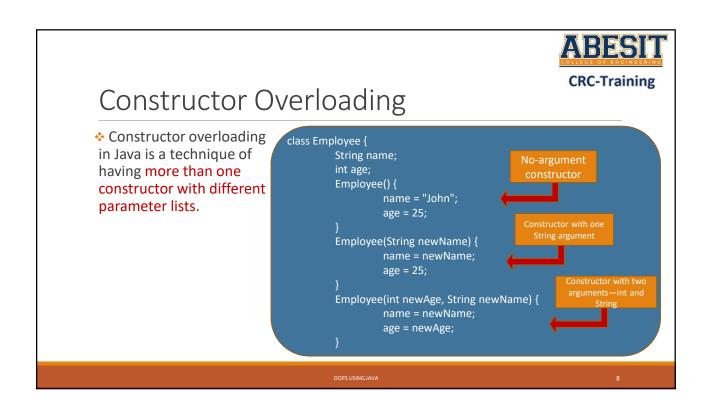
OOPS USING JAV

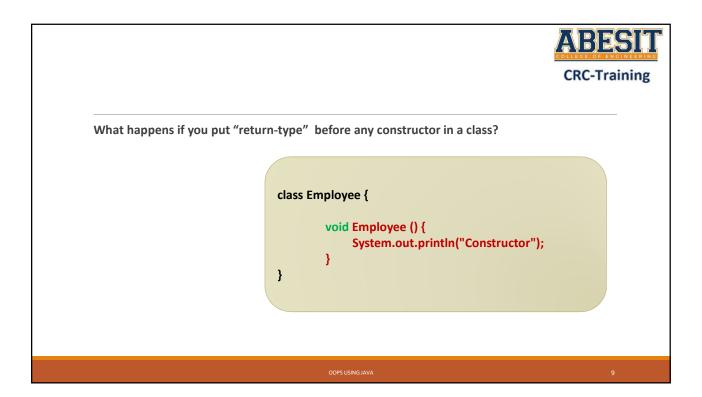
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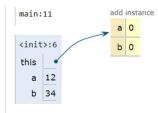


# this keyword This is a reference variable that refers to the current object Any object can use this reference to refer to its own instance. this = I, me, myself



What if Instance Variable Name and local variable **CRC-Training** Name is/are the same in any Method?

```
1 class add{
2   int a,b;
3   add(int a, int b){
4   a=a;
5   b=b;
6  }
7 }
8
9 public class YourClassNameHere {
10   public static void main(String[] args) {
11   add a1 = new add(12,34);
12  }
13 }
```



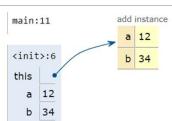
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## **ABESIT**

What if Instance Variable Name and local variable **CRC-Training** Name is/are the same in any Method?

```
1 class add{
2  int a,b;
3  add(int a, int b){
4   this.a=a;
5  this.b=b;
6  }
7  }
8
9  public class YourClassNameHere {
10   public static void main(String[] args) {
11   add a1 = new add(12,34);
12  }
13 }
```



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### Invoking An Overloaded Constructor From Another Constructor

- A constructor is defined using the name of its class,
- it's a common mistake to try to invoke a constructor from another constructor using the class's name

```
class Employee {
    String name;
    int age;
    Employee() {
        Employee(null, 0);
    }
    Employee(String newName, int newAge) {
        name = newName;
        age = newAge;
    }
}
Won't compile—you can't
    invoke a constructor within a
    class by using the class's name.
```

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### **CRC-Training**

### Invoking An Overloaded Constructor From Another Constructor

```
class Employee {
                                        No-argument
    String name;
                                                              Invokes constructor
                                        constructor
    int age;
                                                               that accepts two
    Employee() {
                                                               method arguments
        this (null, 0);
    Employee(String newName, int newAge) {
                                                            Constructor that
        name = newName;
                                                             accepts two method
        age = newAge;
                                                             arguments
}
```

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### **CRC-Training**

Can we call two (or more) constructors within a constructor?

• We can't call two (or more) constructors within a constructor because the call to a constructor must be the first statement in a constructor.

```
class Employee {
    String name;
    int age;
    Employee() {
    Employee(String newName, int newAge) {
        name = newName;
        age = newAge;
    Employee(String newName, int newAge, boolean create) {
        this();
        this(newName, newAge);
                                                Won't compile; can't include
        if (create)
                                                 calls to multiple constructors
            System.out.println(10);
                                                in a constructor
}
```

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