Constructor

Constructor

A special method

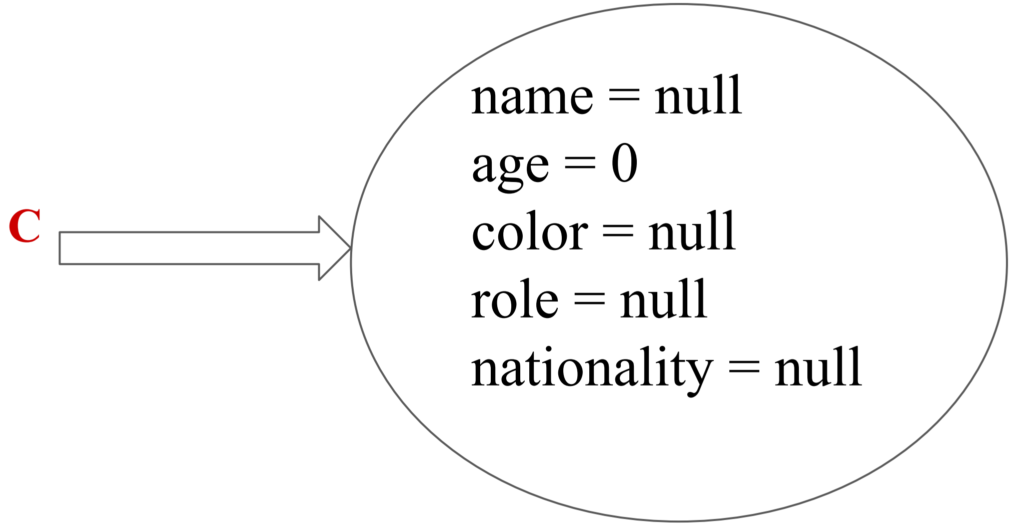
constructs/initializes the values at the time of object creation.

No return type

Has same name as class name

Automatically invoked when the object is created

Cricketer c = new Cricketer(); object creation & constructor invocation



C

name = null
age = 0
color = null
role = null
nationality = null

Types of constructors

- Default:
    1. java compiler creates a default constructor if your class doesn't have any explicit constructor
    2. Always no-argument constructor
- User defined
    1. Is explicitly written in the class

To initialize the instance members with user-defined values

1. Zero-parameterized / No-argument constructor
2. Parameterized constructor

By User defined No-arg constructor

```java
class Employee {
    int id;
    String name;
    float salary;
    Employee() {
        System.out.println("user defined no-argument "
        + "constructor executed");
    }
    void display() {
        System.out.println(id + " " + name + " " + salary);
    }
}
```

By user defined no-argument constructor

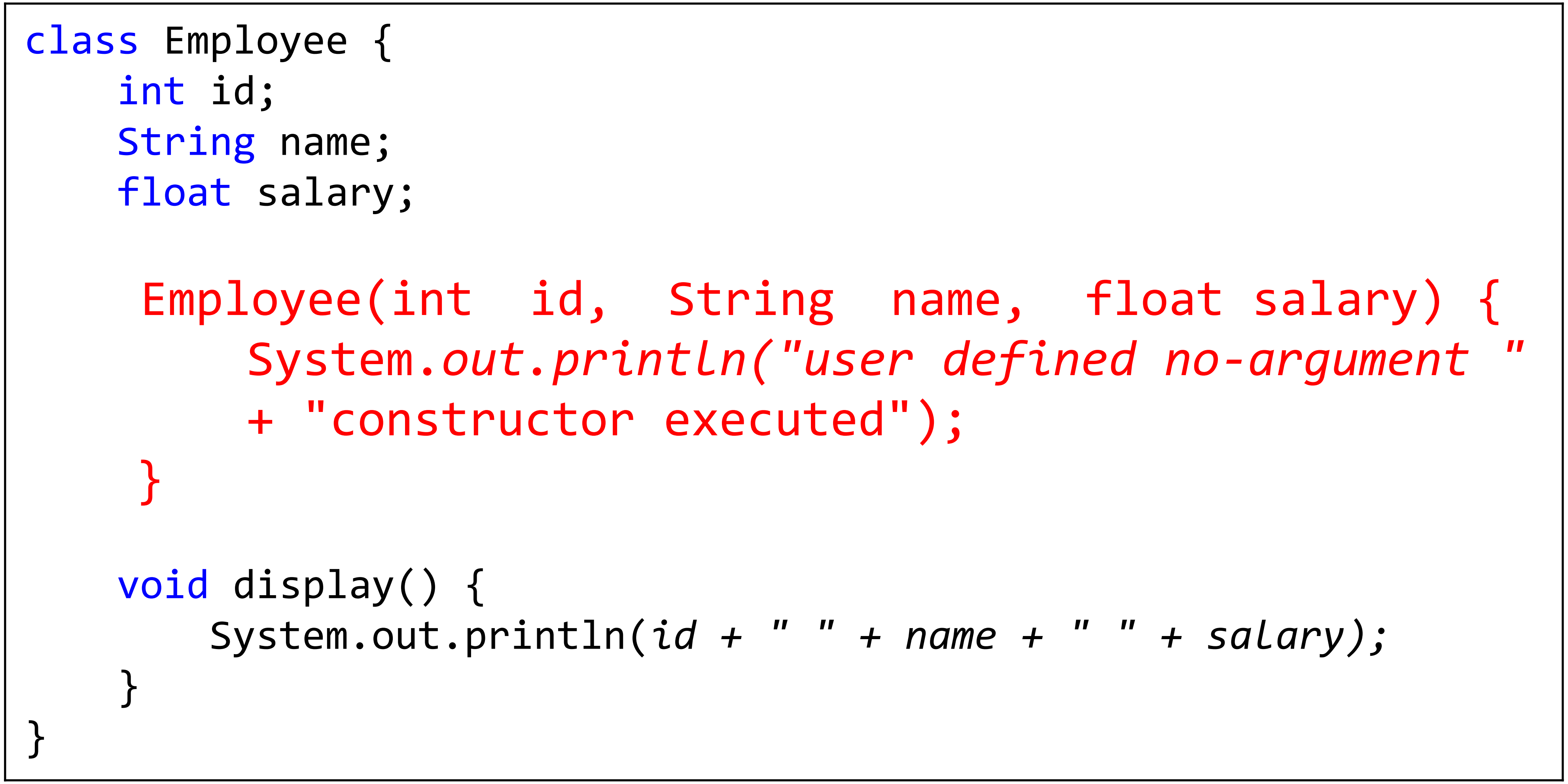
```java
public  class  Main  {
    public static void main(String[] args) {

        Employee e1 = new Employee();
        Employee e2 = new Employee();

        e1.display();
        e2.display();

    }
}
```

By User defined parameterized constructor



```
class Employee {
    int id;
    String name;
    float salary;

     Employee(int  id,  String  name,  float salary) {
         System.out.println("user defined no-argument "
         + "constructor executed");
     }

    void display() {
        System.out.println(id + " " + name + " " + salary);
    }
}
```

Passing values for parameterized constructor

```
public  class  Main  {
    public  static  void  main(String[]  args) {

        Employee  e1 = new  Employee(101, "ajeet", 45000);
        Employee  e2 = new  Employee(102, "irfan", 25000);
        Employee  e3 = new  Employee(103, "nakul", 55000);

        e1.display();
        e2.display();
        e3.display();
    }
}
```