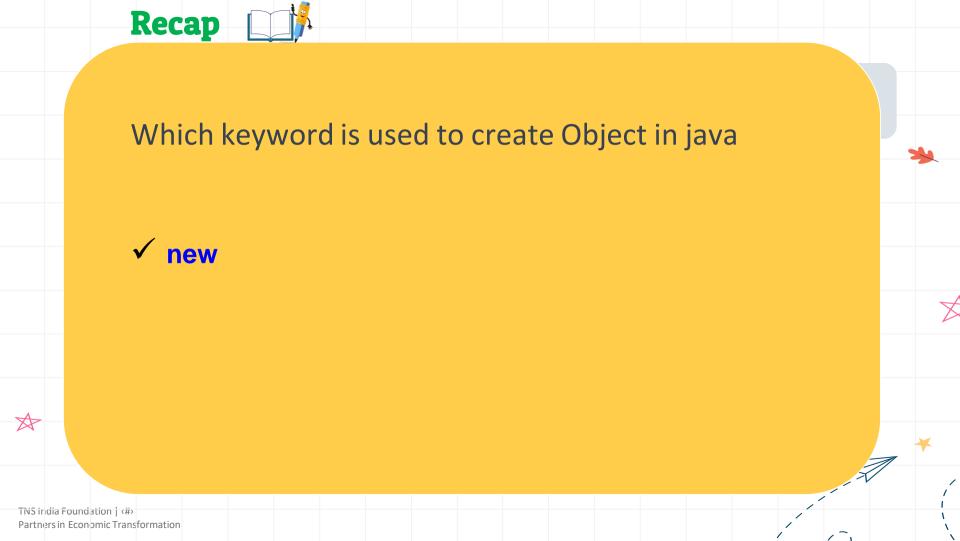


# **CONSTRUCTOR**







What is the default value of int and boolean?

- ✓ int : 0
- √ boolean : false





What is the scope of private access specifier?

✓ Members that are declared private cannot be accessed outside the class.



## **OBJECTIVES**

On completion of this topic, you will be able to:

- Make use of Constructor
- Identify types of Constructors
- Use this in various perspectives
- **Create Constructor Overloading**
- Perform Method Overloading







## **CONSTRUCTOR & OVERVIEW**

### CREATE THREE OBJECT FOR EMPLOYEE CLASS

Employee e1 = new Employee();

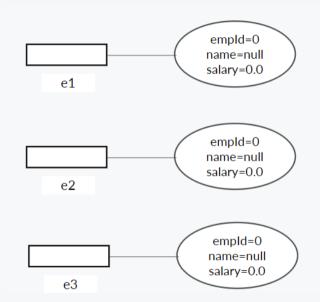
Employee e2 = new Employee();

Employee e3 = new Employee();

- ✓ Object are created
- ✓ They are not in proper state.
- ✓ Instance variables are allocated the default value

How to create the object with proper state?

**Ans:** By using Constructor



## CONTRUCTOR

Wha

#### What is a constructor?

Special method is invoked implicitly when an object is created.

(c)

## Why constructor?

To initialize the instance variables with proper values.

Ĉ

## Rules for writing a constructor:

Constructor must not have a return type (not even void).

Constructor name must be the same as the name of the class.

### When does a constructor get executed?

Constructor is automatically invoked when an object is created.

## **CONTRUCTOR TYPES**

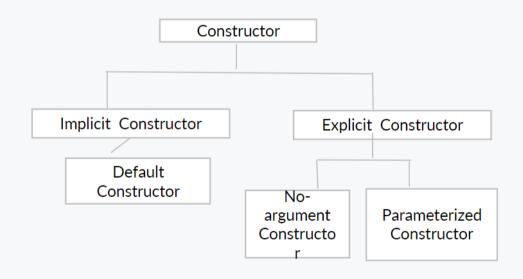
#### **TYPES OF CONSTRUCTORS**

Implicit Constructor

**Explicit Constructor** 

- Implicit Constructor Provided by compiler.
- Explicit Constructor User defined Constructor.
- No Argument Constructor.

  Parameterized Constructor.



## **CONTRUCTOR TYPES**

#### NO ARGUMENT CONSTRUCTOR

Constructor written with no arguments is known as a default constructor.

```
public class Employee {
    private int empId;
    private String name;
    private float salary;
    public Employee()
                                                                   No argument Constructor
        System.out.println("No argument Constructor");
    public static void main(String a[])
                                                                         Output
           Employee empObj=new Employee();
                                                                       No argument
                                                                       Constructor.
```

## **EXPLICIT CONSTRUCTOR**

#### PARAMETERIZED CONSTRUCTOR

Constructor written with argument list is known as a parameterized constructor.

```
public class Employee {
    private int empId;
    private String name;
    private float salary;
  //Constructor
    public Employee(int id, String ename)
                                                                           Parameterized Constructor
        System.out.println("In Parametrized Constructor");
        empId = id;
        name = ename;
    public static void main(String a[])
           Employee empObj=new Employee(101, "Rohith");
                                                                                   Output
                                                                         In Parameterized Constructor.
```

## IMPLICIT CONSTRUCTOR

#### **DEFAULT CONSTRUCTOR**

Constructor is provided by the compiler, when no constructor is written for a class it's known as a default constructor.



# **HANDS ON TRAINING**



# **Doubts Time**





# **QUIZ TIME**



Q1. Object can be created by \_\_\_\_\_ keywod?

- A create
- **B** this
- C new
  - D default



## Object will be create in \_\_\_\_\_ memory area

- A stack
- **B** method
- (c) heap



# **SUMMARY**

## **SUMMARY**

- Explain Class and Object
- Create Class and Object
- Use appropriate Access Specifier
- Write Getters, Setters Method

