



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



COURSE NAME : 23CSB101 & Object Oriented Programming

I YEAR/ II SEMESTER

UNIT – I INTRODUCTION TO OOP & JAVA

Topic: Static Members

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Static members

- **Static Variable:** A variable that is **shared across all objects** of a class
- **Static Method:** A method that belongs to the class **instead of an object** and can be called without creating an instance



Static members

```
class Employee {  
    String name;  
    int id;  
    // Static members  
    static String companyName = "Tech Solutions";  
    static int totalEmployees = 0;  
    // Constructor  
    Employee(String name, int id) {  
        this.name = name;  
        this.id = id;  
        totalEmployees++; // Increment employee count    }  
}
```



Static members

```
// Display employee details
```

```
void display()
```

```
{
```

```
    System.out.println("Employee Name: " + name + ", ID: " + id + ",  
                        Company: " + companyName);
```

```
}
```

```
// Static method to display total employees
```

```
static void displayTotalEmployees()
```

```
{
```

```
    System.out.println("Total Employees: " + totalEmployees);
```

```
}
```



Static members

```
public static void main(String[] args)
{
    Employee e1 = new Employee("Alice", 201);
    Employee e2 = new Employee("Bob", 202);
    e1.display();
    e2.display();
    // Call static method without object
    Employee.displayTotalEmployees();
}
}
```



References

- Java : the complete Reference (Eleventh Edition), Herbert Schildt, 2018.

