

# **SNS COLLEGE OF TECHNOLOGY**

Mannumons

#### Coimbatore-35. An Autonomous Institution

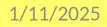
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### DEPARTMENT OF COMPUTER SCIENCE ENGINEERING COURSE CODE & NAME : 23CST205 - Object Oriented Programming Using Java

**II YEAR/ III SEMESTER** 

**UNIT – I INTRODUCTION TO OOP** 

**Topic: Inheritance** 





# Inheritance

- 1. Inheritance is an important pillar of OOP (Object Oriented Programming).
- 2. It is the mechanism in Java by which one class is allowed to inherit the features (fields and methods) of another class.
- 3. We are achieving inheritance by using **extends** keyword.
- 4. Inheritance is also known as "**is-a**" relationship.

## • Important terminologies:

#### • Superclass:

• The class whose features are inherited is known as superclass (also known as base or parent class).

### • Subclass:

- he class that inherits the other class is known as subclass (also known as derived or extended or child class).
- The subclass can add its own fields and methods in addition to the superclass fields and methods.





# Inheritance

# • Reusability:

Inheritance supports the concept of "reusability".

when we want to create a new class and there is already a class that includes some of the code that we want, we can derive our new class from the existing class.

By doing this, we are reusing the fields and methods of the existing class.





