

SNS COLLEGE OF TECHNOLOGY



Coimbatore-35. An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade (Cycle III) Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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.















































