

SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore - 641 107

An Autonomous Institution

Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

23CSB101 OBJECT ORIENTED PROGRAMMING

UNIT II INHERITANCE, PACKAGES AND INTERFACES

METHOD OVERRIDING

By M.Kanchana

Assistant Professor/CSE



DYNAMIC METHOD DISPATCH



Dynamic Method Dispatch (also called Runtime Polymorphism) is a feature in Java that allows **a parent class reference** to call an overridden method of a child class at runtime.



DYNAMIC METHOD DISPATCH



```
.class Vehicle {
   void speed() {
     System.out.println("Vehicle is moving");
class Car extends Vehicle {
   @Override
   void speed() {
     System.out.println("Car is moving at 60 mph");
class Bike extends Vehicle {
   @Override
   void speed() {
     System.out.println("Bike is moving at 40 mph");
```



DYNAMIC METHOD DISPATCH



```
public class Main {
  public static void main(String[] args) {
     Vehicle v; // Parent class reference
     v = new Car(); // v refers to a Car object
     v.speed(); // Calls Car's speed() method (Runtime decision)
     v = new Bike(); // v now refers to a Bike object
     v.speed(); // Calls Bike's speed() method (Runtime decision)
```

USE:

Polymorphism – A single reference type (Vehicle) can be used for different subclasses (Car, Bike).





THANK YOU