SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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23CSB101
OBJECT ORIENTED PROGRAMMING

UNIT II
INHERITANCE, PACKAGES AND INTERFACES

SUPER keyword

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"super" keyword

Super is a special keyword that directs the compiler to invoke the superclass members. It is used to refer to the parent class of the class in which the keyword is used.
super keyword is used for the following three purposes:
1.   To invoke superclass constructor.
2.   To invoke superclass members variables.
3.   To invoke superclass methods.

super();
 or
super(parameter-list);

"super" keyword

```java
class Animal {
    String sound = "Some sound";
    Animal() {
        System.out.println("An animal is created.");
    }
    void makeSound() {
        System.out.println("Animal makes a sound: " + sound);
    }
}
```

"super" keyword

```java
class Dog extends Animal {
    String sound = "Bark"; // Overriding parent variable
    Dog() {
        super(); // Calls Animal constructor
        System.out.println("A dog is created.");
    }
    void makeSound() {
        System.out.println("Dog makes sound: " + sound);
        super.makeSound(); // Calls Animal's makeSound()
    }
}
```

```
public class Main {
    public static void main(String[] args) {
        System.out.println("\nCreating Dog:");
        Dog dog = new Dog();
        dog.makeSound();
    }
}
```

Output:

Creating Dog:
An animal is created.
A dog is created.
Dog makes sound: Bark
Animal makes a sound: Some sound

THANK YOU