- The super keyword is used for differentiating the base class features with derived class features
- The super keyword in java is like a reference variable that is used to refer to parent class objects
- The super keyword is used with the concept of inheritance.

super is used in the following:

- super at variable level
- super at method level
- super at constructor level

super at variable level 띳 When a derived class and base class has same data members. In that case there is a possibility of ambiguity for the JVM in that case we use super with variables.

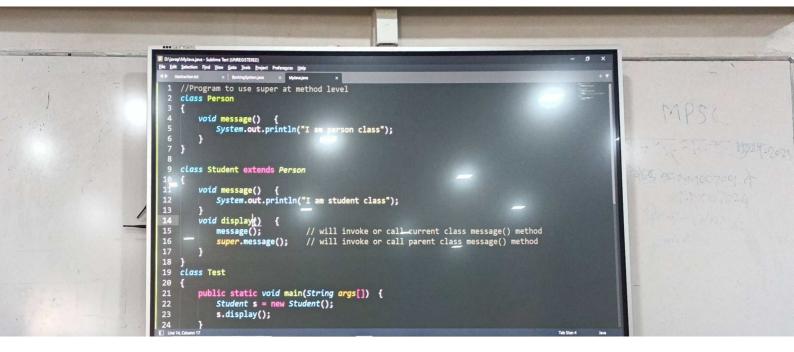
```
class Test
                                                                                                                                                                                                                                                                                             The Edit View Hélp

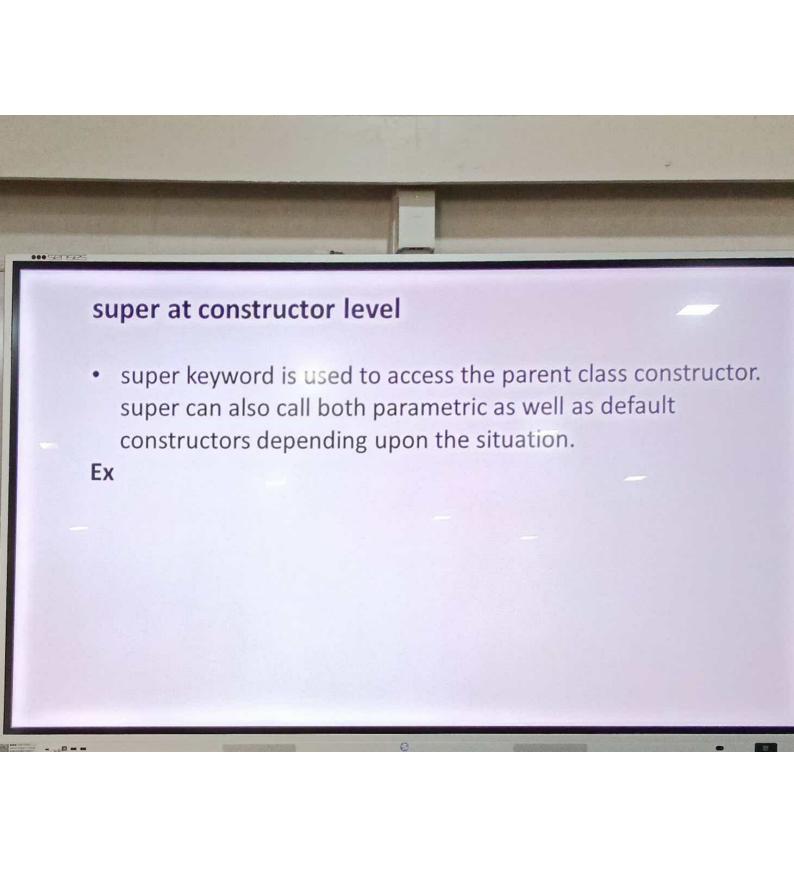
//Program to use super at variable level
class Vehicle{

Int speed = 170;
                                                                                                                                                                                                                                                                      class Car extends Vehicle
                                             public static void main(String[] args) {
                                                                                                                                                          int speed = 130;
void display() {
   /* print speed of base class (vehicle) */
   System.out.println("Maximum Speed: " + super.speed);
Car s = new Car();
s.display();
```

super at method level

When we want to call parent class method in child class and whenever a parent class and child class have same named methods then to resolve this ambiguity we use super keyword.





```
D:\javap\MyJava.java - - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Prefer
     //Program to use super at constructor level
 2 3 4
     class Person
      Person()··{
.....system.out.println("This is Person class Constructor");
  6
      class Student extends Person
           Student() {
 10
                // call parent class constructor
 11
 12
                System.out.println("This Student class Constructor");
 13
14
15
16
     class Test
17
18
           public static void main(String[] args)
19
               Student s = new Student();
20
21
22
2 lines, 19 characters selected
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```

final keyword

The final keyword in java is used to restrict the user.

The final keyword can be:

final variable final method final class



final variable

final variables are the constants which cannot change the value of a final variable once it is initialized.

final method

A **final** method cannot be overridden which means even though a subclass can call the final method of parent class but we cannot override it.

final class

A class is declared as final then this class cannot be inherited.

```
Colorado de la colora
```

```
1 //Program to use of final variable
2 class FinalDemo{
3    final int MAX=89:
4    void me(){
5     MAX=110;
6    }
7    public static void main(String args[]){
8     FinalDemo_obj=new FinalDemo();
9    obj.me();
10    }
11 }
```

```
//final method
 2
3
4
5
6
7
8
9
10
       class FinalMethod{
          final void demo(){
             System.out.println InalMethod Class Method");
      class ABC extends FinalMethod{
         void demo(){
            System.out.println("ABC Class Method");
 11
12
 13
        public static void main(String args[]){
14
           ABC obj = new ABC();
15
           obj.demo();
16
17
18
```

```
Class B extends A{
  void demo(){
    System.out.println("I am in A");
  }
  public static void main(String args[]){
    B obj= new B();
    obj.demo();
  }
}
```