

# Super keyword

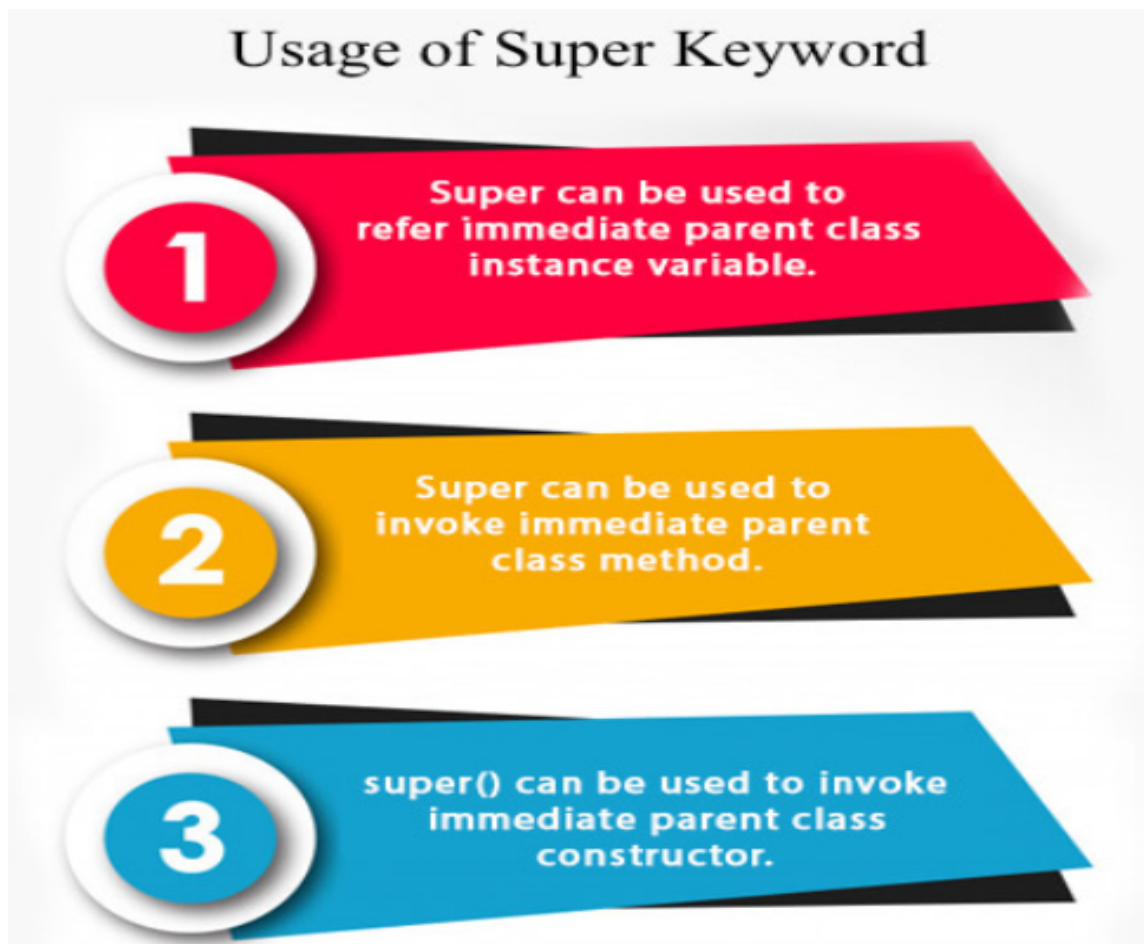
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## We will cover the following

- Super Keyword
- refer to the immediate class variable
- Invoke the immediate parent class method
- Invoke the immediate parent class constructor

### Super keyword

The **super** keyword in Java is a reference variable that is used to refer to the immediate parent class object.



## Refer to the immediate parent class variable

```

1  class Car
2  {
3
4  String color = "white";
5
6  }
7
8  class Audi extends Car
9  {
10
11 String color = "black";
12
13 void printColor ()
14 {
15
16     System.out.println ("current class: "+color); //prints color of Audi class
17     System.out.println ("parent class: "+super.color); //prints color of Car class
18 }
19 }
20 class Main
21
22 {
23
24 public static void main (String args[])
25 {
26
27     Audi d = new Audi ();
28
29     d.printColor ();
30
31 }
32
33 }

```

input

```

current class: black
parent class: white

...Program finished with exit code 0

```

Here you can see that `super.color` prints the value of the color variable of the immediate parent class.

## Invoke the immediate parent class method

```

1  class Animal
2  {
3      void eat ()
4      {
5          System.out.println ("eating... from parent");
6      }
7  }
8  class Dog extends Animal
9  {
10     void bark ()
11     {
12         System.out.println ("barking...");
13     }
14     void work ()
15     {
16
17         super.eat (); // calling the parent class method
18
19         bark ();
20
21     }
22 }
23
24 class Main
25 {
26
27     public static void main (String args[])
28     {
29
30         Dog d = new Dog ();
31
32         d.work ();
33
34     }}
35

```

eating... from parent  
 barking...  
 ...Program finished with exit code 0

Here you can see that `super.eat()` calls the `eat` method of the parent class.

## Invoke the immediate parent class method

```
1 class Animal
2 {
3     Animal ()
4 {
5     System.out.println ("calling constructor... from parent");
6 }
7 }
8 class Dog extends Animal
9 {
10 {
11     Dog(){
12         super();//calling parent constructor
13     }
14 }
15 class Main
16 {
17
18     public static void main (String args[])
19 {
20
21     Dog d = new Dog ();
22
23 }
24 }
25
```

calling constructor... from parent

...Program finished with exit code 0

super() is used here to call the parent class constructor.