

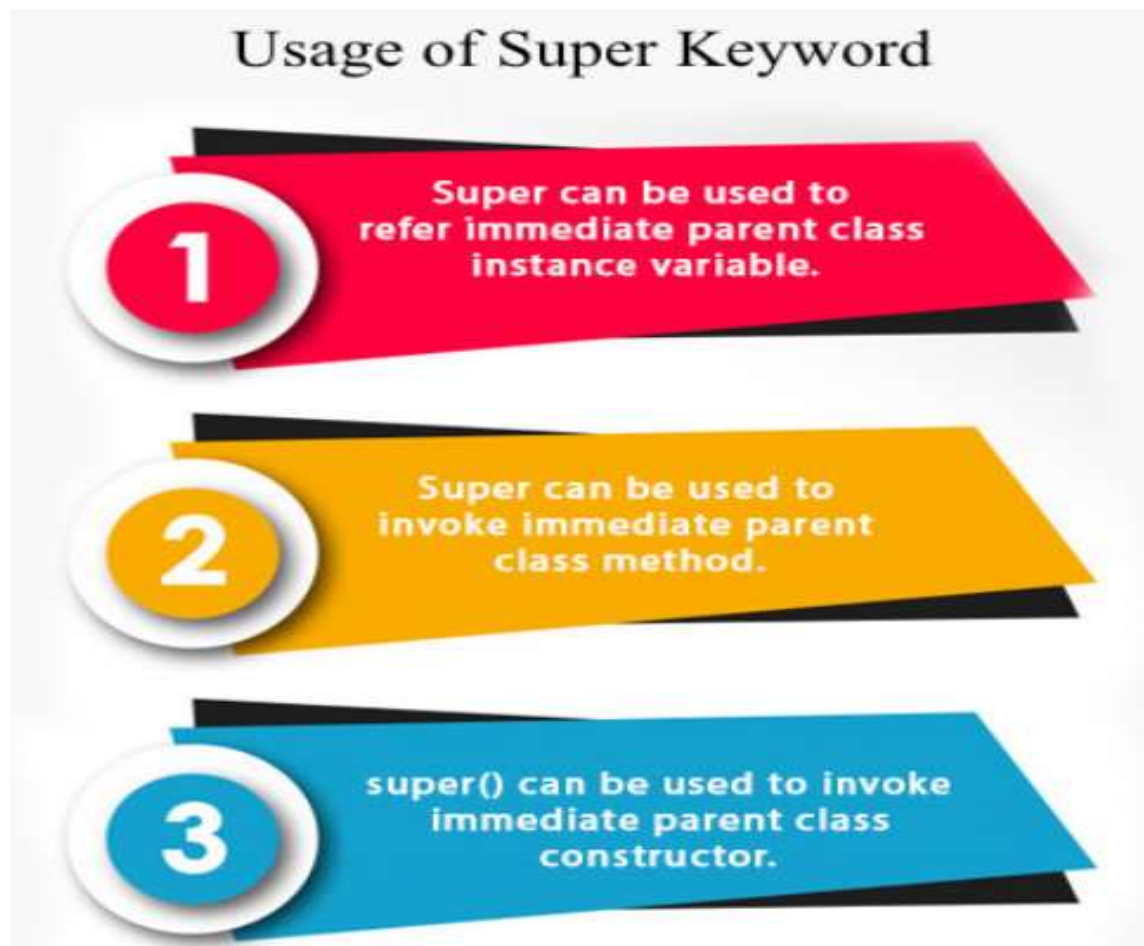
Super keyword

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 }
```

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     Dog(){
11         super();//calling parent constructor
12     }
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.