this keyword

1 public void show(int a,int b){ // formal parameters show(a,b); //actuals parameters

- The this keyword can be used to refer to any member of the current object from within an instance method or a constructor.
- 'this' is an internal or implicit object created by JAVA for two purposes. They are
 - this object is internally pointing to current class object.
 Whenever the formal parameters and data members of the
 - Whenever the formal parameters and data members of the class are similar, to differentiate the data members of the class from formal parameters, the data members of class must be preceded by 'this'.

We can use this keyword in following ways

this variable this constructor this method

this variable

- this keyword can be very useful in the handling of Variable Hiding.
- We can not create two instance or local variables with the same name.

Ex

```
1 class Test
         int al
 4
         int b:
         Test(int a, int b) {
 6
             this.a = a;
                is.b = b;
 8
         void display() {
             //Displaying value of variables a and b
10
             System.out.println("a = " + a + " b = " + b)
11
12
         public static void main(String[] args) {
13
             Test object = new Test(40, 80);
14
             object.display();
15
16
```

this constructor

this keyword can be used inside the constructor to call another overloaded constructor in the same class.

Ex:

```
class Data
          int a;
          int b;
         Data()
              this(10,20);
         Data(int x, int y)
10
11
12
13
14
         void show()
15
              System.out.println("a="+a);
System.out.println("b="+b);
17
18
19
20
    class Test {
         public static void main(String[] args) {
22
23
              Data d1=new Data();
              Data d2=new Data(100,200);
                                                                                                      Tab Star 4
```

```
class Data
 2 3 4 5 6 7
          int as
         int b; I
          Data()
              this(10,20);
8
9
10
11
12
13
14
15
16
          Data(int x, int y)
               3=X:
          void show()
               System.out.println("a="4a)
               System.out.println("b="+b)}
 17
      class Test {
          public static void main(String[] args) {
 19
               Data d1=new Data();
 20
 21
               Data d2=new Data(100,200);
 22
23
24
               d1.show();
               d2.show();
```

1)

this method

this keyword can also be used inside Methods to call another method from same class.

Ex:

```
class Data
        int a;
        int b;
        Data() I
  6
             this(10,20);
        Data(int x, int y)
10
11
             this.show();
12
         void show()
13
14
15
             System.out.println("a="+a);
16
             System.out.println("b="+b);
17
18
19
    class Test {
         public static void main(String[] args) {
20
             Data d1=new Data();
21
22
23
             Data d2=new Data(100,200);
```