Assignment2

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1. what are the advantages of “This” keyword ?

“This” is a keyword in Java. It can be used inside the M*ethod* or *constructor* of Class. (*this)*works as a reference to the current Object whose Method or constructor is being invoked. This keyword can be used to refer to any member of the current object from within an instance Method or a constructor.

Here is given the 6 usages of this keyword.

1. this keyword can be used to refer current class instance variable.
2. this () can be used to invoke current class constructor.
3. this keyword can be used to invoke current class method (implicitly)
4. this can be passed as an argument in the method call.
5. this can be passed as argument in the constructor call.
6. this keyword can also be used to return the current class instance.

2. related program ?

a. **This keyword with method**

Import java. Lang.\*;

class TEST {

public static void main(String[] args) {

TEST obj = new TEST();

obj.methodTwo();

}

void methodOne(){

System.out.println("Inside Method ONE");

}

void methodTwo(){

System.out.println("Inside Method TWO");

this.methodOne();// same as calling methodOne()

}

}

**B. This keyword with constructor**

Import java. Lang.\*;

public class Rectangle {

private int x, y;

private int width, height;

public Rectangle() {

this(0, 0, 1, 1);

}

public Rectangle(int width, int height) {

this(0, 0, width, height);

}

public Rectangle(int x, int y, int width, int height) {

this.x = x;

this.y = y;

this.width = width;

this.height = height;

}

}

**C. This key word**

class A{

A(){

this(5);

System.out.println("hello a");

}

A(int x){

System.out.println(x);

}

}

class TestThis6{

public static void main(String args[]){

A a=new A();

}

}