**This Keyword-**

It is used to refer current class variables, method and constructor.

Note- this keyword is not used in static context

Why?

**# Program-1** use of current class variable.

**class** Parent {

**int** x = 20;

}

**class** Child **extends** Parent {

**int** x = 25;

**void** test() {

**int** x = 30;

Child c = **new** Child();

//In Scenario 1

System.***out***.println("By creating objects=" + c.x);

//In Scenario 2

System.***out***.println("By using this keyword=" + **this**.x);

}

}

**public** **class** TestMain {

**public** **static** **void** main(String[] args) {

Child c= **new** Child();

c.test();

}

}

Output-

By creating objects=25

By using this keyword=25

In Scenario 1, we are calling the x variable of child class for that purpose we loading the whole class that is not good programmer approach. For use of single variable, we should go for this keyword in java.

In Scenario 2, we are trying to calling the x variable of current class by using the keyword that is the best approach because we are not wasting the memory here.

**# Program 2**-

2.1 program for use of current class method.

**class** Parent {

**void** test() {

System.***out***.println("Parent class method.");

}

}

**class** Child **extends** Parent {

**void** test() {

System.***out***.println("Child class method");

}

**void** demo() {

**this**.test();

}

}

**public** **class** TestMain {

**public** **static** **void** main(String[] args) {

Child c= **new** Child();

c.demo();

}

}

2.2

Output-

Child class method.

# **Program-3.1** to use of current class constructor-

**package** com.test;

**class** Test {

**public** Test() {

System.***out***.println("Test constructor called using" + " this keyword..");

}

**public** Test(**int** x) {

**this**(); // invoke the constructor of current class

}

**public** **static** **void** main(String[] args) {

Test test = **new** Test(10);

}

}

Output-

Test constructor called using this keyword..

# **Program-3.2** to use of current class constructor-

**public** **class** Example {

Example() {

**this**("Java");

System.***out***.println("Inside Constructor without parameter");

}

Example(String str) {

System.***out***.println("Inside Constructor with parameter" + str);

}

**public** **static** **void** main(String[] args) {

Example obj = **new** Example();

}

}

Output-

Inside Constructor with String parameter as Java

Inside Constructor without parameter