# **This Keyword**

**How are this() and super() used with constructors?**

this() is used to invoke a constructor of the same class. super() is used to invoke a superclass constructor.

**What are the differences between this() and super()?**

this() is used to access one constructor from another with in the same class while super() is used to access superclass constructor. Either this() or super() exists it must be the first statement in the constructor.

**Can we use This keyword in static method?**

No. We can’t use This keyword in static method because static method belongs to the class.

**Can we use This keyword to access static method?**

Yes. We can use the keyword if the method we are calling from is not static.

**Can we use This method in main() method?**

No. We can’t use This keyword in main() method as main() method is static.

Can we call method on this keyword from constructor?

Yes. We can call non-static method using this keyword from constructor.

**Is it possible to assign a reference to “this” in java?**

No. We can’t assign a value to “this” because its always points to current object and it’s always final reference in java.

If we try to change or assign a reference to “this”, it will throw a compile time error.

**Can we return “this” from a method?**

Yes. We can return this as current class object.

**package** FPPackage;

**public** **class** ThisExample {

**int** a;

**public** **void** method1(**int** a) {

**this**.a = a;

}

**public** **int** getA() {

**return** a;

}

**public** ThisExample show() {

**return** **this**;

}

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

ThisExample te = **new** ThisExample();

te.method1(10);

ThisExample te1 = **new** ThisExample();

te1 = te.show();

System.***out***.println(te1.getA());

}

}

**What are the uses of This keyword?**

this must be used to access instance variable if both instance and local variable names are same.

We can use this keyword in constructor overloading, to call one constructor from another we need this(); and this(); call should be first statement of the constructor.

This can be used to call other non static methods from with in methods.

**Can we pass this as parameter of method?**

Yes, we can pass this as parameter in a method

**Can we use this to refer static members?**

Yes, it’s possible to access static variable of a class using this but its discouraged and as per best practices this should be used on non static reference.

**Is it possible to use this in static blocks?**

No its not possible to use this keyword in static block.