**Day 13**

**This Keyword in Java**

* The ‘this’ keyword refers to the current object in a method or constructor.
* The most common use of the ‘this’ keyword is to eliminate the confusion between class attributes and parameters with the same name.

The uses of this keyword:

1. Used to refer current class instance variable
2. Used to invoke current class method
3. Used to invoke current class constructor

**1. Used to refer current class instance variable**

Example

Class Student

{

int rollno;

String name;

float fee;

Student(int rollno, String name, float fee)

{

this.rollno =rollno;

this.name=name;

this.fee=fee;

}

Void display()

{

System.out.println(rollno+” “ +name+” “ +fee);

}

class Test

{

public static void main(String args[])

{

Student ob = new Student(11,”Rohit”,5000);

Student ob1 = new Student(12,”Anoopa”,6000);

ob.display();

ob1.display();

}

}

**2. Used to invoke current class method**

Example

class A

{

void display()

{  
 System.out.println(“Hello”);

}

void show()

{

System.out.println(“Show”);

display();// this.display

}

}

public static void main(String args[] )

{

A ob = new A();

A.show();

}

OUTPUT

Show

display

**3. Used to invoke current class constructor**

1. **Calling default constructor from parametrized constructor**

class A

{

A()

{

System.out.println(“default constructor invoked”);

}

A(int x)

{

this(); //this should be first statement in constructor

System.out.println(x);

}

}

class Test

{

public static void main(String args[])

{

A ob = new A(15);

}

}

**OUTPUT:**

Default Constructor invoked

15

1. **Calling parametrized Constructor from default constructor**

class A

{

A()

{

this(5);

System.out.println(“default constructor invoked”);

}

A(int x)

{

System.out.println(x);

}

}

class Test

{

public static void main(String args[])

{

A ob = new A();

}

}

**OUTPUT**

5

Default Constructor invoked