

Object Oriented Programming Using - JAVA

PRACTICAL - 6

Aim: Write a program in Java to demonstrate use of this keyword.

Theory: In this practical, we explore the use of the this keyword in Java, which refers to the current object instance. It is commonly used to resolve naming conflicts between instance variables and parameters, especially within constructors and methods. By writing a Java program that initializes object attributes using this, we gain clarity on how object-oriented principles like encapsulation and reference work.

Code:

```
class Shape
{
    int height;
    int width;

    Shape(int height,int width)
    {
        this.height = height;
        this.width = width;
    }
    public static void main(String args[])
    {
        Shape s = new Shape(10,20);
        System.out.println("Height=" + s.height+ "\nWidth=" + s.width);
    }
}
```

Output:

```
Height=10
Width=20
```

Conclusion: This practical demonstrated how the this keyword is used to reference the current object in Java. It helped us understand how to resolve naming conflicts between instance variables and parameters, reinforcing key object-oriented programming concepts.