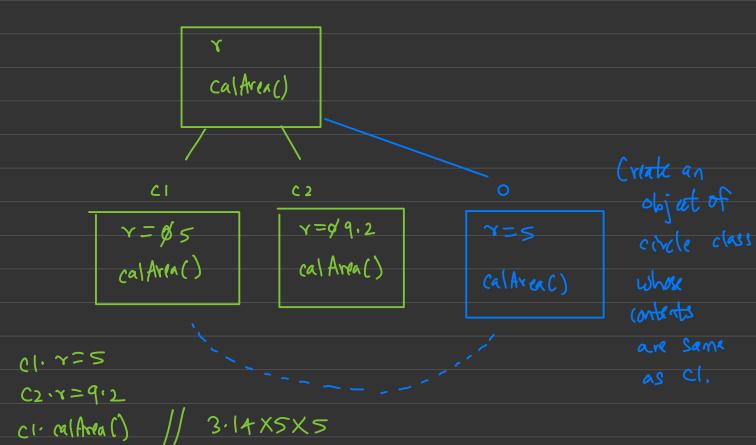
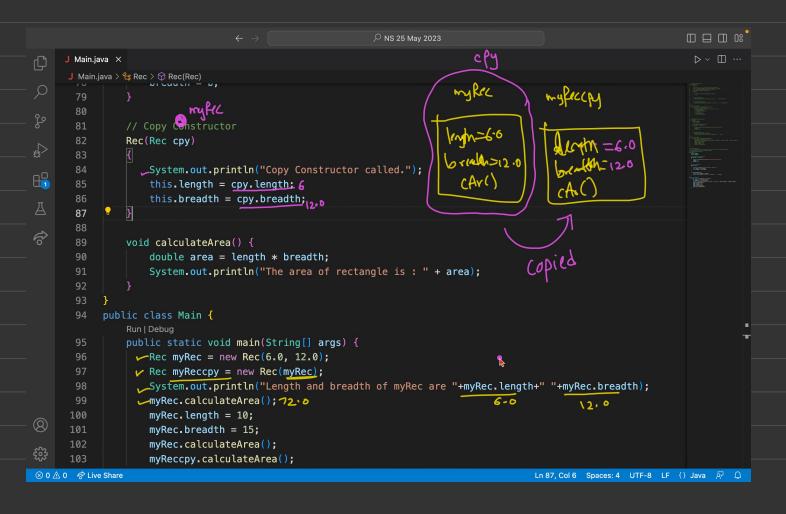
25 May 2023

Circle





https://www.w3schools.com/java/ref_keyword_this.asp

Defn:

- 1) Instance Variable! It is a variable which is declared inside a class but outside any of the methods.
- Local Variable: —declared inside any of the mtd
 its value is available only inside the function
 where it is declared.

```
J Main.java × J A.java
þ
                 // Parameterized Constructor
                  class Rec {
                     double length; // instance variable
                     double breadth; // instance variable
                     Rec(double l, double b)
                          System.out.println("Parameterized Constructor called.");
                          breadth = b;
                     void calculateArea() {
                          double area = length * breadth; // area is a Local variable
System.out.println("The area of rectangle is : " + area);
        50
                         myRec.calculateArea();
(A)
                         myRec.breadth = 15;
       61 //

お Live Share
                          myRec.calculateArea()
                                                                                                 Ln 50, Col 71 Spaces: 4 UTF-8 LF {} Java 🔊 🚨
```

- 1. When object of a class is created, it contains only list of non-static instance variables.
- 2. But if the instance variable is declared as static, only one copy of the static instance variable exists in the memory. And every object of the class shares the same copy of static instance variable.
- 3. To access the non-static instance variable and method of the class, we require the object of the same class.

Without object, these data are not accessible.

