Local Variables and Instance Variables

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Local Variables & Instance Variables

- ✓ Local Variable
  - ✓ Variables Declared within a Constructor or a Method
  - ✓ Memory is allocated during Method Execution

- ✓ Instance Variables
  - ✓ Non Static Variables, Declared Outside the Constructor or Method, within the class
  - ✓ Memory is allocated during Object Creation

Java Stack Area & Java Heap Area

- ✓ Java Stack Area
  - ✓ Constructor or Methods are executed
  - ✓ Memory is allocated to Local Variables
  - ✓ Memory is allocated within the Method Frame of the Java Stack Area
- ✓ Java Heap Area
  - ✓ Objects are Executed
  - ✓ Memory is allocated to Instance Variables
  - ✓ Memory is allocated within the Method Frame of the Java Heap Area

Java Stack Area & Java Heap Area

```
Class Test
{
    int a = 10, b = 20;
    Test (int x, int y, int z)
    {
        System.out.println(“The Value of x:” + x);
        System.out.println(“The Value of y:” + y);
        System.out.println(“The Value of z:” + z);
    }
    System.out.println(“The Value of a:” + a);
    System.out.println(“The Value of b:” + b);
}
```

```
Class Demo
{
    public static void main(String args[])
    {
        Test t = new Test(11,12,13);
    }
}
```

Thank you