

Create a Data Type

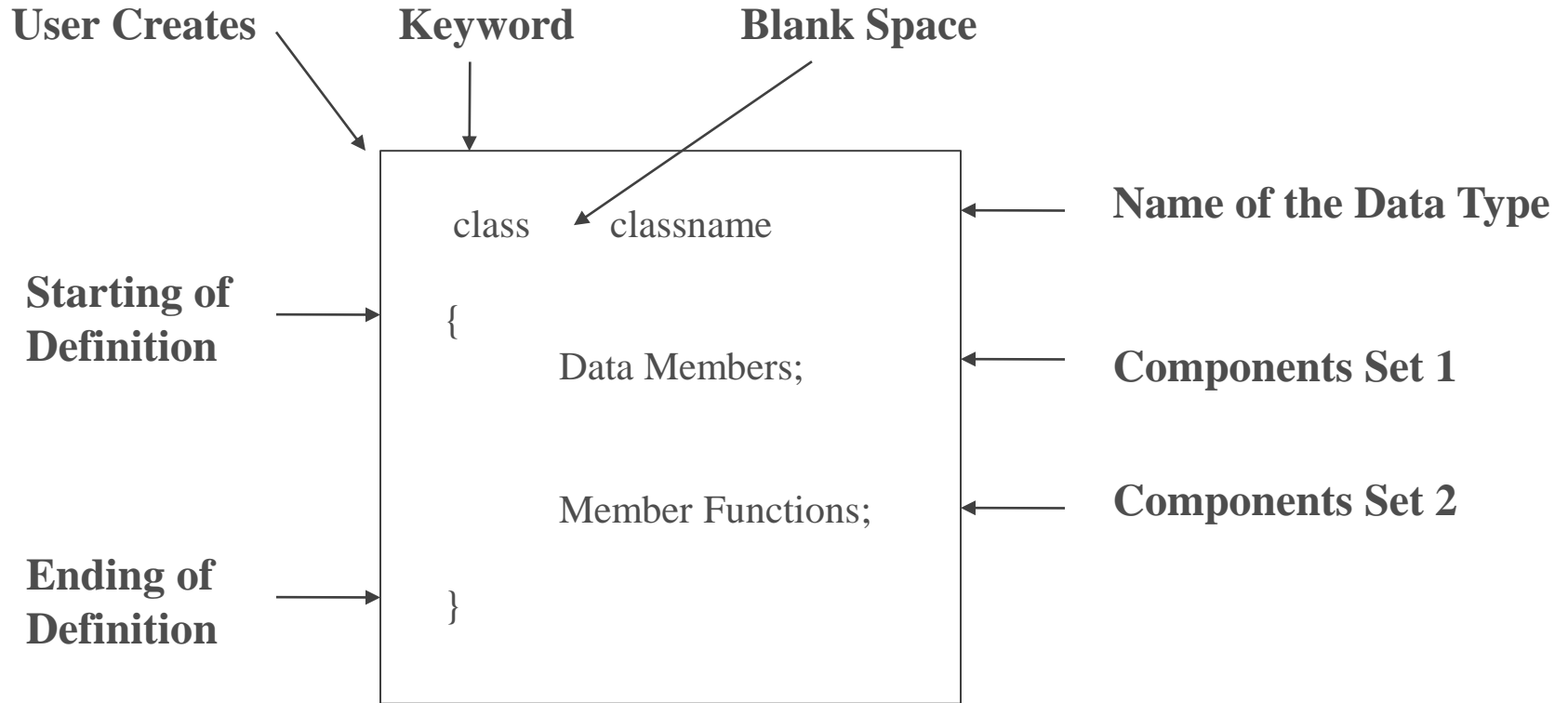


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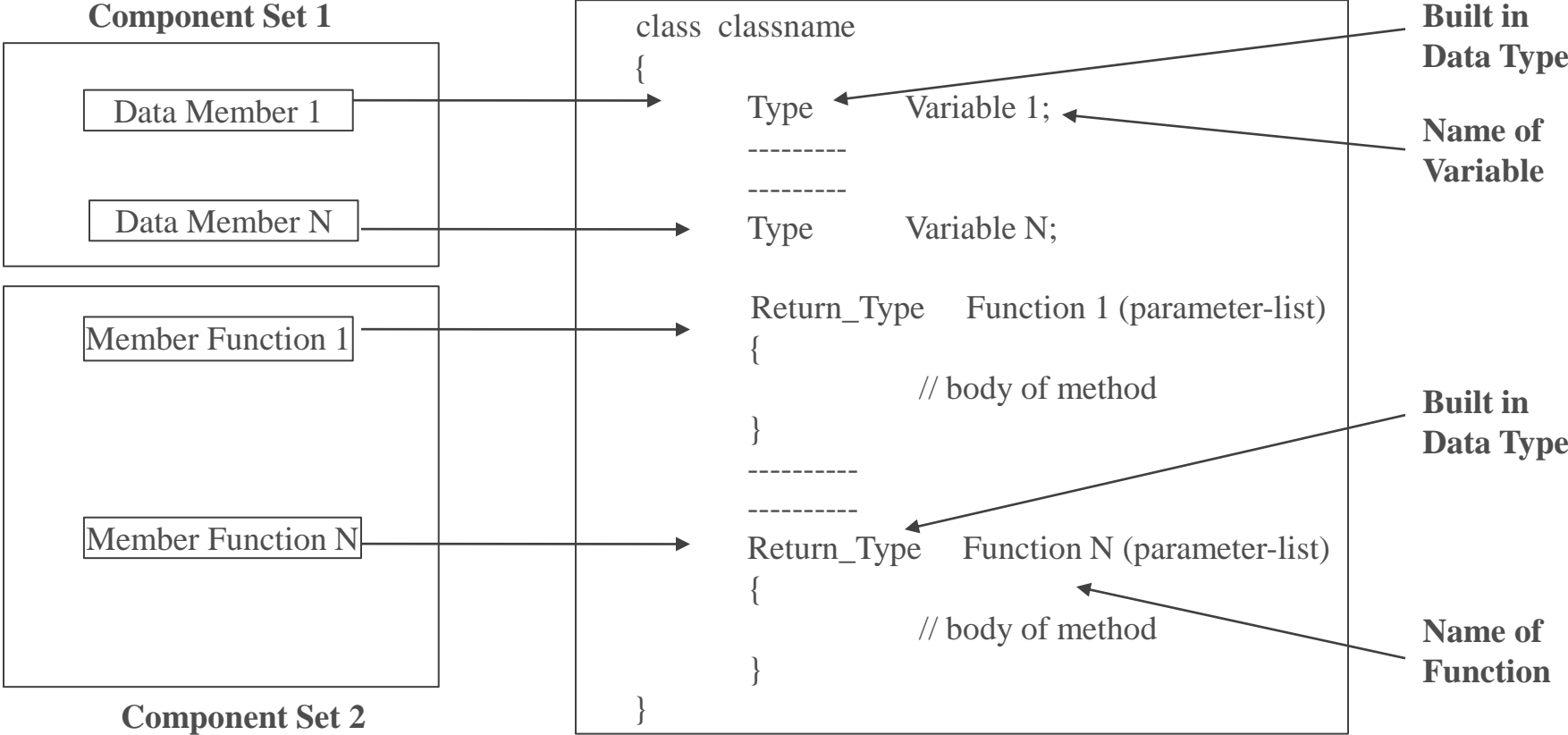
Dr M. Senthilkumar
Assistant Professor

Department of Computer Science
Government Arts and Science College, Avinashi - 641654

Creating a Data Type



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```
class classname
{
    Type      Variable 1;
    -----
    -----
    Type      Variable N;

    Return_Type  Function 1 (Data Type Variable 1, ....., Data Type Variable N)
    {
        // body of method
    }
    -----
    -----
    Return_Type  Function N (Data Type Variable 1, ....., Data Type Variable N)
    {
        // body of method
    }
}
```

Heap

**Instance
Variable 1**

Stack

**Local
Variable 1**

So What is a Class?

- ✓ Class is a User-defined Data type
- ✓ Class contains Data Members and Member Functions
- ✓ Java Program contains One or More Classes
- ✓ Heap Memory is allocated for Instance variables of a class
- ✓ Stack Memory is allocated for Local variables of methods in a class

So Why do we need a Class?

- ✓ Everything in this world are Objects
- ✓ Similar Objects are having Common set of Properties
- ✓ A new Object can be created using Common Properties
- ✓ Common set of Properties are defined in a Class
- ✓ Finally, Class is a template for Objects

Thank you