**Core Java for Testers**

**Duration: 2 Days**

**Pre-Requites:** Must know c or c++ or any other programming skills

**Course Objectives:** Once training is completed participants will be ready to learn Selenium

**Certification Link:**

* None

**Pre- Training Udemy Course Link:**

<https://www.udemy.com/course/java-programming-complete-beginner-to-advanced/>

**Post- Training Udemy Course Link:**

<https://www.udemy.com/course/java-the-complete-java-developer-course/>

**Lab Setup:**

* Windows Machine
* RAM: 8 GB
* JDK 1.8
* Eclipse for Java Development

**Course Outline:**

**Day 1:**

**OOPS**

* Encapsulation
* Inheritance, Is-A, Has-A
* Polymorphism
* Overridden Methods
* Overloaded Methods
* Reference Variable Casting
* Implementing an Interface
* Return Type Declarations
* Returning a Value
* Constructors and Instantiation
* Default Constructor
* Overloaded Constructors
* Static Variables and Methods

**Day 1 &2:**

**Generics and Collections**

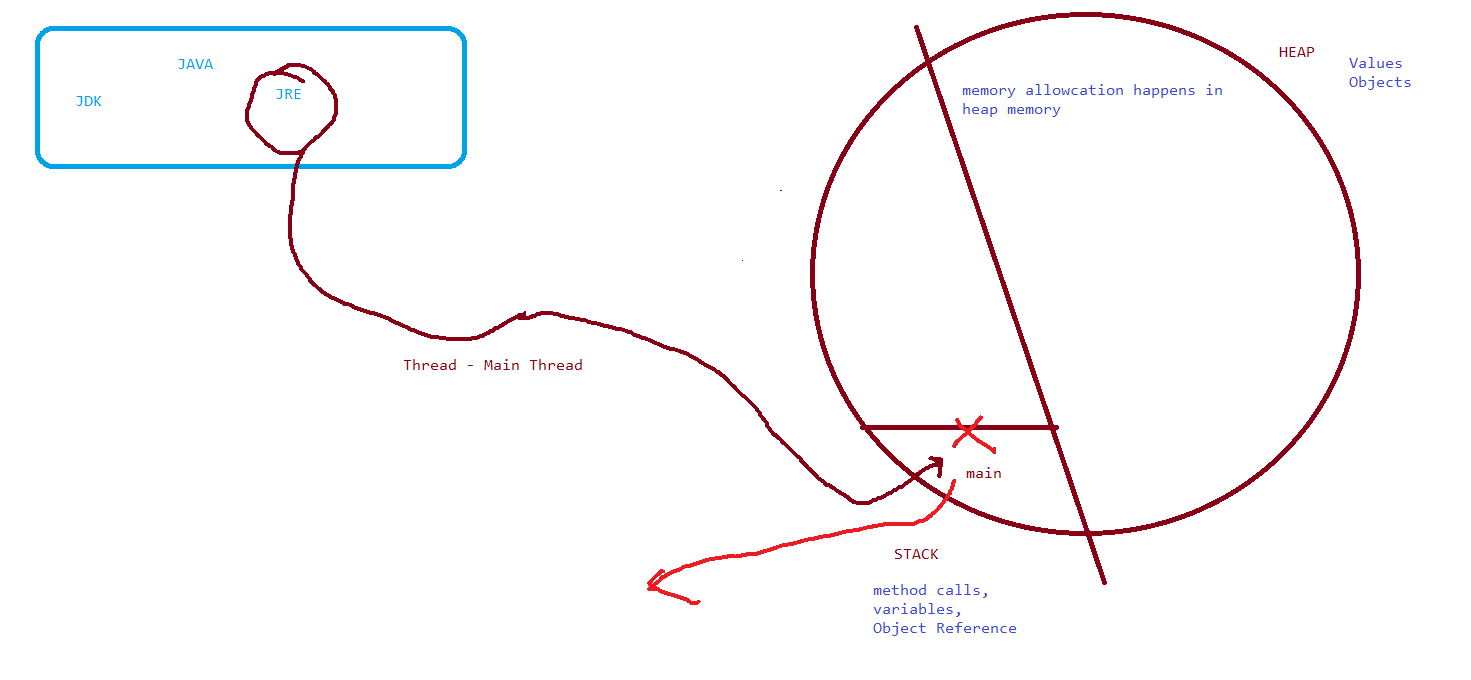
* The Java Collections Framework
  + List Interface
  + Set Interface
  + Map Interface
* Using the Collections Framework
* Sorting Collections and Arrays
* Generic Types

**Java Input/output**

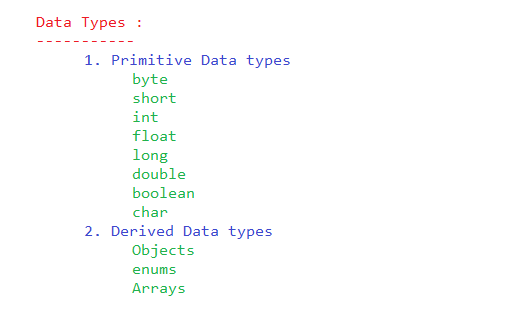
* Byte Streams and Character Streams
* InputStream and OutputStream
* Reader and Writer classes
* Read from and write to file/console
* Serialization

JAVA :

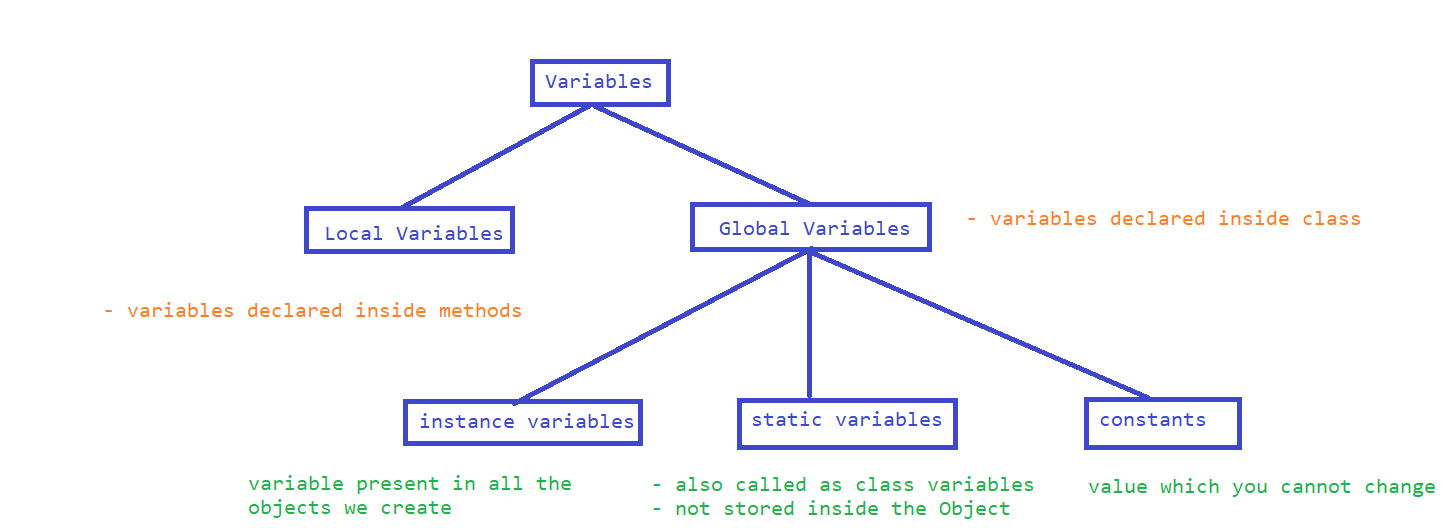
1. Packages
2. Java Execution – Internal



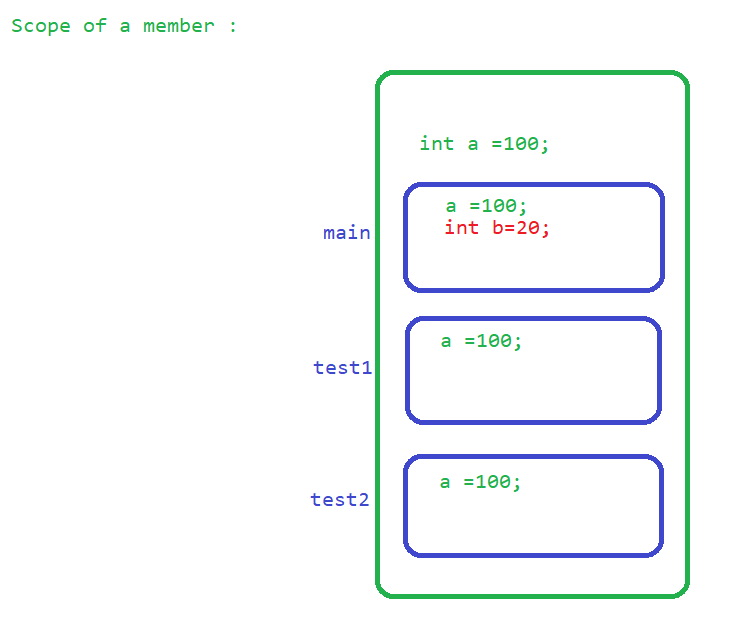
1. Data types



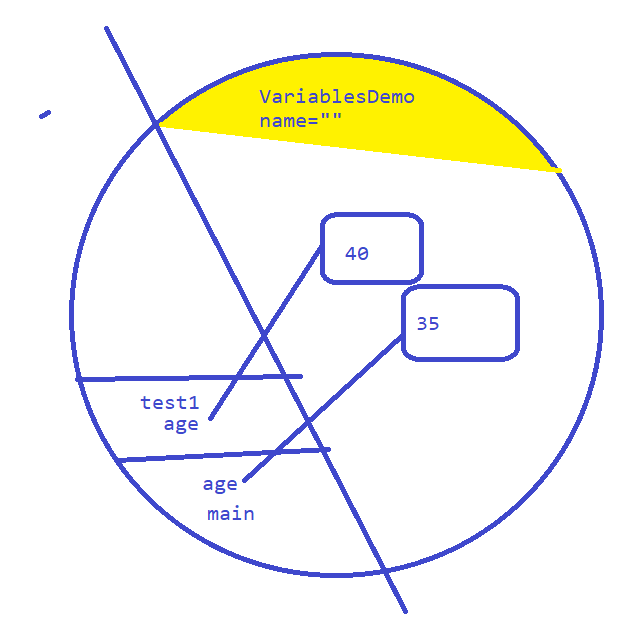
1. Variables



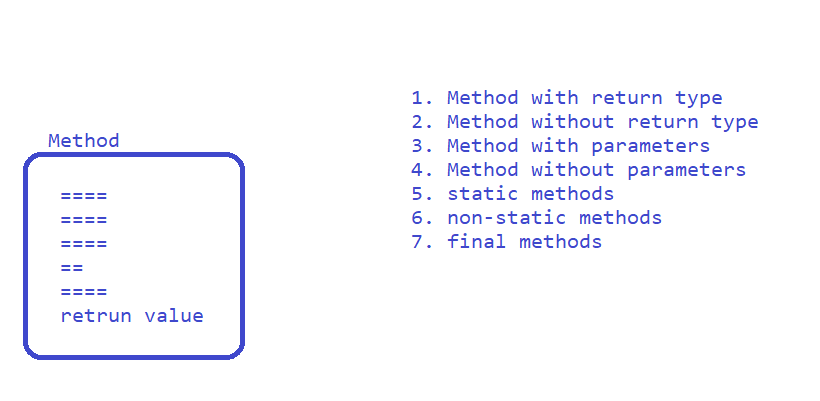
1. Scope



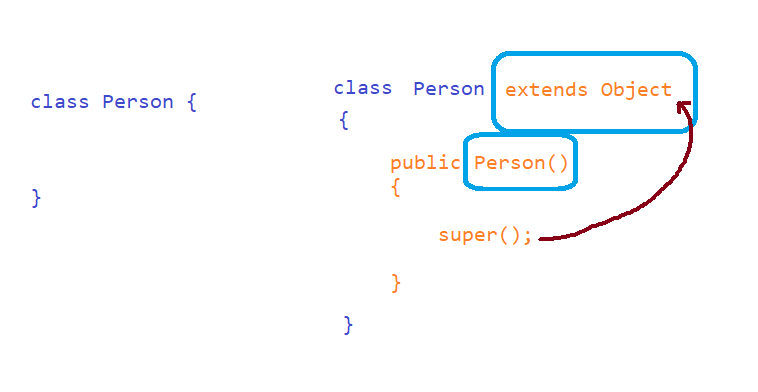
1. Execution



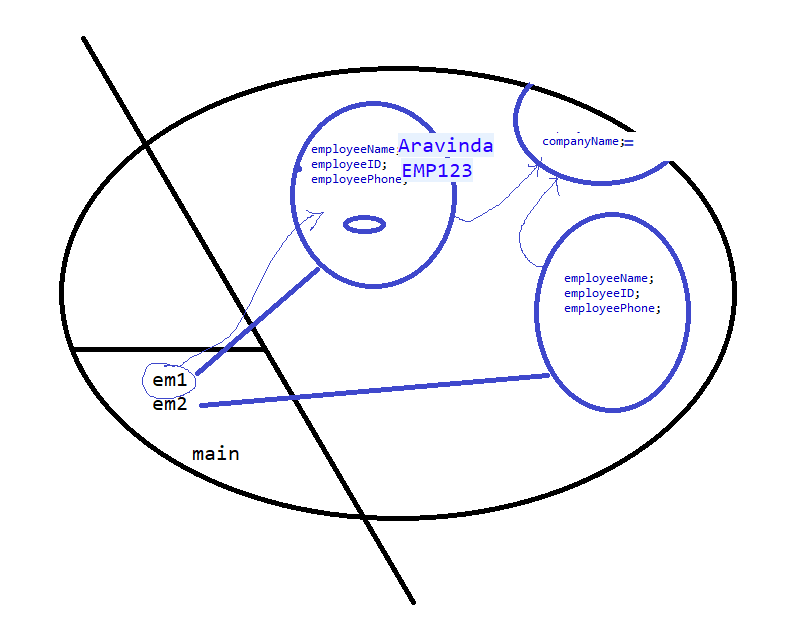
1. Methods



1. Constructors



1. Execution –Internal



1. Polymorphism
   1. Overloading / static polymorphism / Compile time polymorphism
   2. Overriding / dynamic polymorphism / Run time polymorphism
2. Inheritance