**Executing Instance initializer blocks**

The code between braces ‘{…}’ is called *code block.*

Code blocks, those outside of the method are *instance initializers.*

*Balanced parentheses problem*, if braces ‘{‘ and ‘}’ does not match with its pair in the code.

**Order of Initialization**

Rules:

* Fields and instance initializer blocks are run in the order in which they appear in the file.
* The constructor runs after all fields and instance initializer blocks have run.

**Data Types**

There two types of data types are:

* Primitive, eight data types are existed. It represents the building block for objects. A primitive is single value in memory, such as number or character.
* Reference, instance of a class.

**Note:**

* Short is signed, it splits its range to negative and positive.
* Char is unsigned, it allows only 0 and positive numbers, therefore it holds higher positive number than short.

**Variable types**

* *Local*, declared in constructor, method or instance initializer.
* *Instance,* it belongs to the individual class instances.
* *Class*, static keywork declares them, it is shared among all instances of class.

**Initializing variables**

Any local variable should be initialized before getting used or passing as an argument to the method or constructor.

**VAR**

Local variable type interface, var. Introduced in java 10. Supports all data types.