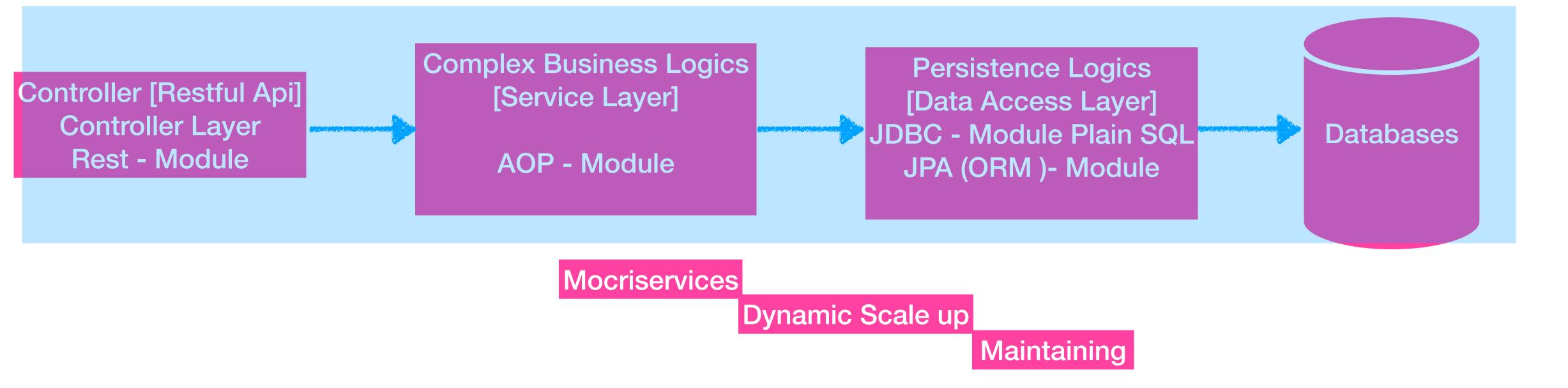
JSE -> Design Patterns [Low Level Design]

Problem Solving with Collections [Data Structures]

Oracle

Spring Boot
Core - Module
AOP - Module
JDBC - Module Plain SQL
JPA (ORM)- Module
Rest - Module



One Project with SpringBoot

One Project with MicroServices

JSE [Java Standard Edition] - Core Java (Mac) JVM Mac **Byte Code** Compilation One.class One.java Run/Execution Byte Code: (Windows) JVM Windows -> Its not in the form Machine Language -> ByteCode can be understandable to Java Virtual Machine [JVM]

JDK [Java Development Kit]

Java Tools

javac —-> For compilation Sytax: javac fileName.java Ex: javac One.java

java —-> For Run/Execute .class file Sytax: java Dotclass_FileName Ex: java One

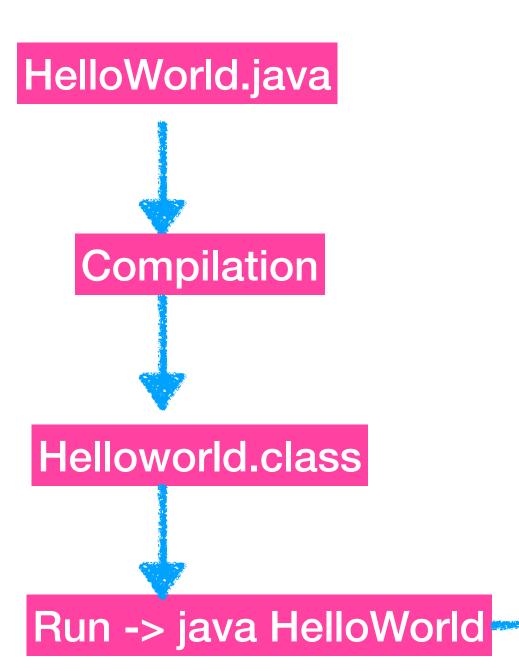
javap —-> meta info about .class file javap One

Java Runtime Environment

JVM - Java Virtual Machine

Helper Files

--> Class Loaders--> Byte Code Verifier



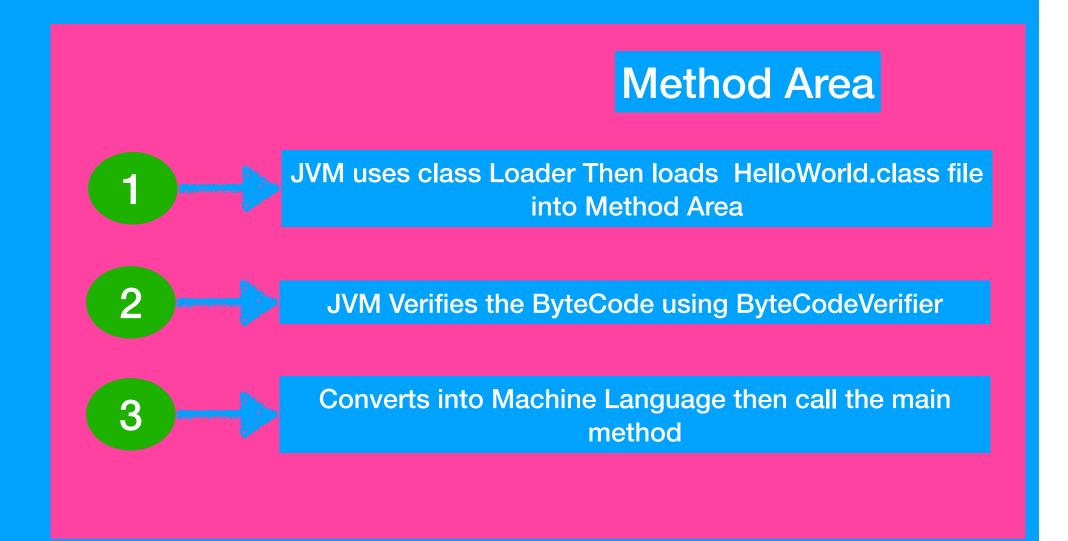
Stack

main-stackFrame Created

LocalVariable String[]
initialised within a
StackFrame

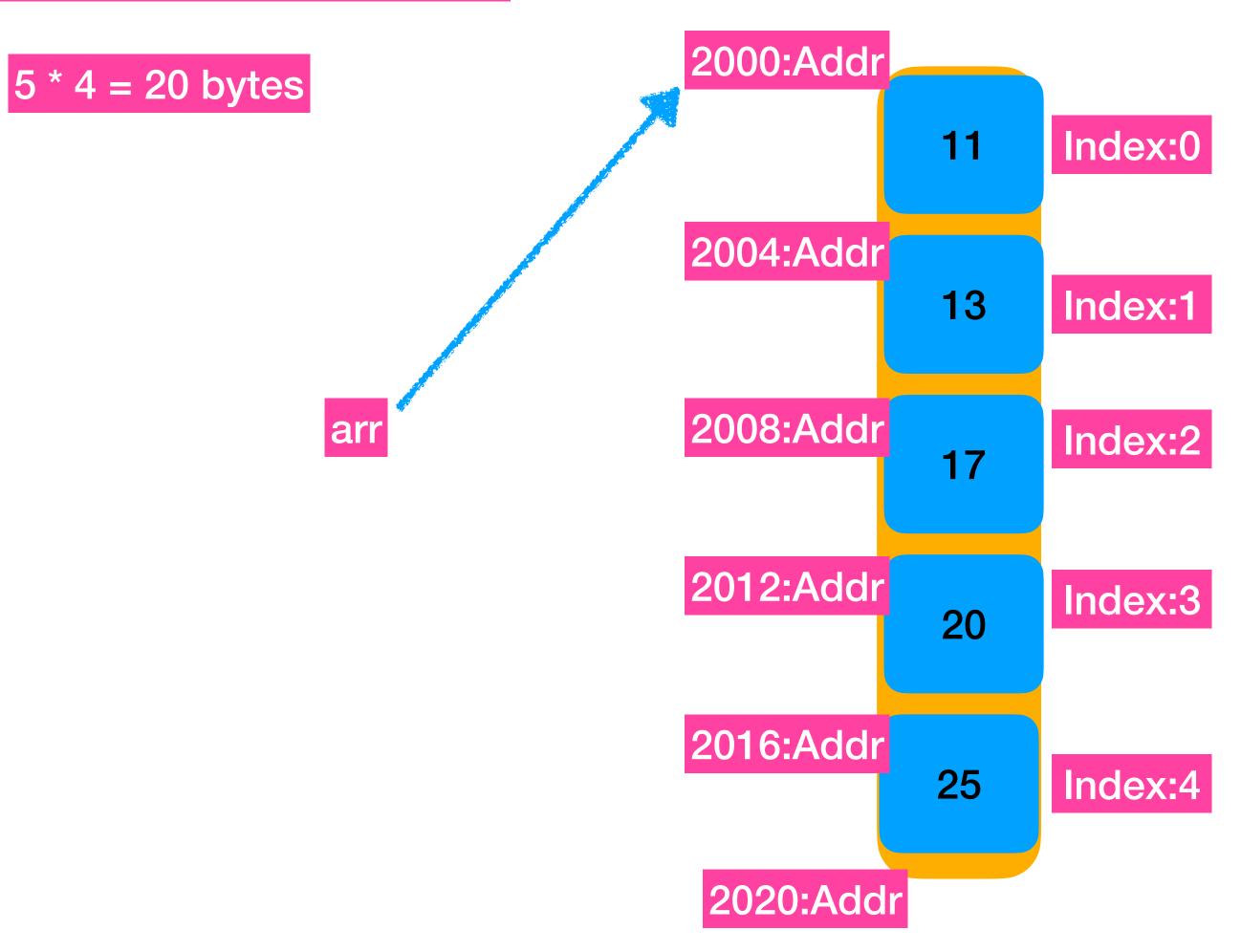
Then Executes
System.out.println code
so the message
displayed on console.

Heap









$$arr[0] \longrightarrow 2000 + 0*4 = 2000 Addr = 11$$

$$arr[3] -> 2000 + 3*4 = 2012 Addr = 20$$

If we know the index number value can be accessible in O(1) time