Types of Applications

- Generally all the Projects or Applications are divided in to ‘3’ types.
    1. Console Based applications
    2. Standalone / Desktop applications
    3. Web Based applications

Console Based Applications :-

- A console based application is a computer program designed to be used with the help of command line interface of some operating systems.
- A user typically interacts with a console application using only a keyboard and display screen, as opposed to GUI applications, which normally require the use of a mouse or other pointing device.
- As the speed and ease-of-use of GUIs applications have improved over time, the use of console applications has greatly diminished, but not disappeared.

Standalone / Desktop applications :-

- An application that can only be executed in local system with local call is called an Standalone / Desktop applications .
- These can be executed independently.
- We don’t require an web server or application server for executing these applications.

Web Based applications :-

- Web Based applications 100% requires browser support and an application server for their execution.
- Web based application refers to any program that is accessed over a network using HTTP (Hyper Text Transfer Protocol).
- These are usually based on the client-server architecture

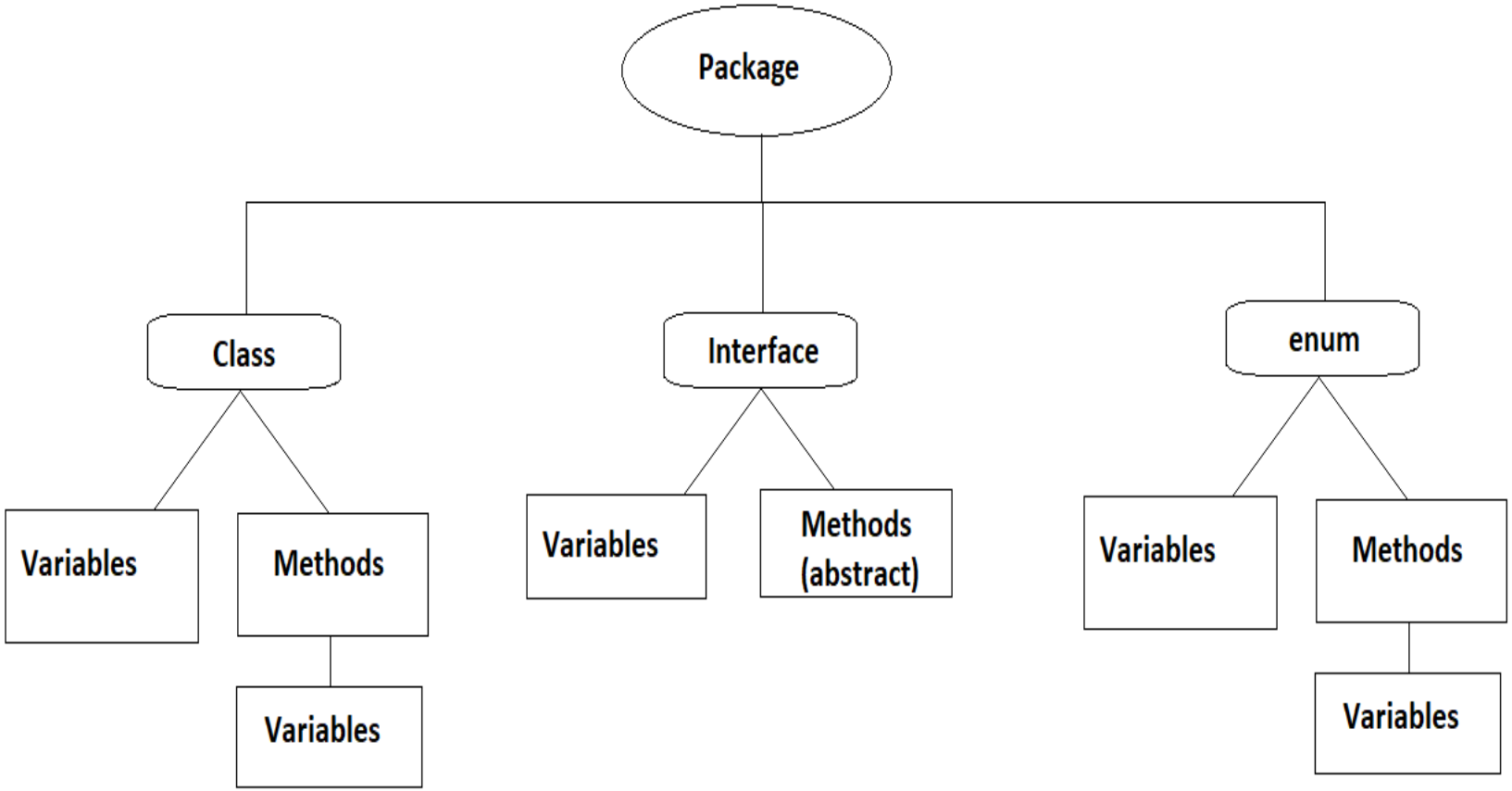
Editions of Java

- **Java Standard Edition (Java SE)** **CONTAINS LIBRARIES & PACKAGES**
  - Also known as J2SE or Java 2 Standard Edition
  - Referred to as the ***CORE*** *Java software*
  - Used in building applets or desktop applications

- **Java Enterprise Edition (Java EE)** **CREATING WEB APPLICATION**
  - Also known as J2EE or Java 2 Enterprise Edition
  - Used in building server-side applications

- **Java Micro Edition (Java ME)** **CREATING MOBILE AND SMALL DEVICES APPLICATION**
  - Also known as Java 2 Micro Edition
  - Used in building applications for wireless devices such as mobile phones and PDAs.

Basic java programming elements



Syntax for Class:

```
<AM>class <className>
{
    ----;
    ----;
}
```

Syntax for Interface:

```
<AM>interface <interfaceName>
{
    ----;
    ----;
}
```

Syntax for enum:

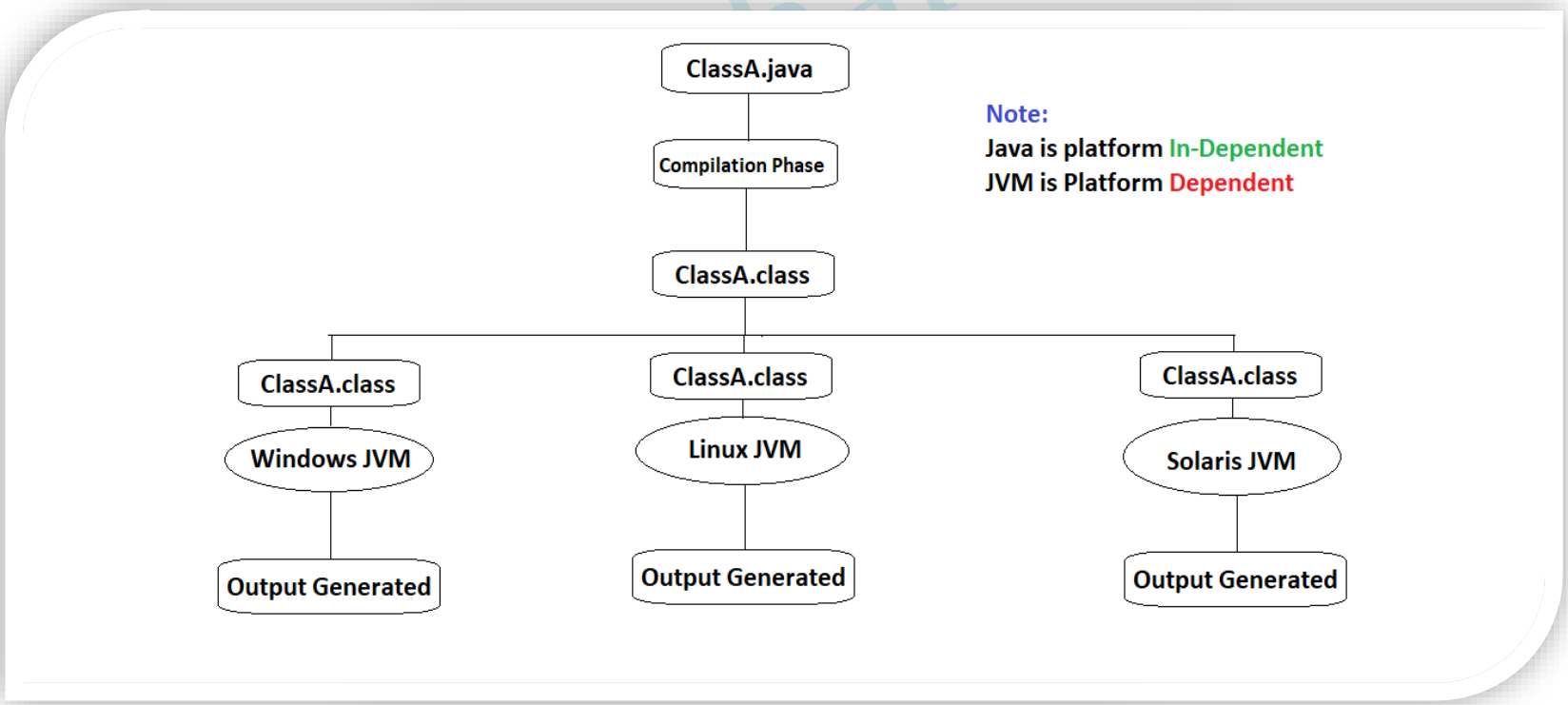
```
<AM>enum <enumName>
{
    ----;
    ----;
}
```

Understanding JVM

What is JVM in Java ?
Different components of JVM ?
Difference between JVM, JRE, and JDK?

INTRO:

- Java Virtual Machine (JVM) is an virtual machine that resides on your computer and provides a runtime execution environment for the Java bytecode to get executed.
- The basic function of JVM is to execute the compiled .class files (i.e. the bytecode) and generate an output.
- JVM is PLATFORM DEPENDENT where as JAVA is PLATFORM IN-DEPENDENT



Internal architecture of JVM