Topic 1:

Lesson 1: Introduction to Java

Java is one of the most popular and widely used programming language and platform , Java first released by Sun Microsystems in 1995. It is free to use, and can run on all platforms (Platform : Any hardware or software environment in which a program runs) . It is class-based, and object-oriented.

> Did you Know : Why was java named java ??
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> Initially, when **James Gosling** developed the language he named it Oak while he was staring at an oak tree outside his office window (in 1991).
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> The whole team behind the development of Java was searching for another good name.
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> Then one day, after several hours of brainstorming, they got an inspiration when they took a trip to a local coffee shop with Gosling. Finally, the name **Java** came from several individuals who were there, and were involved in the project - **J**ames Gosling, **A**rthur **V**an Hoff and **A**ndy Bechtolsheim - **YES, THAT'S WHERE JAVA CAME FROM.**

Lesson 2 : Basics of Java

> The basics of Java in the format in which it will help you the most to get the headstart :
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> Java Environment: The programming environment of Java consists of three components mainly:

- **JDK** - *Java Development Kit*
- **JRE** - *Java Runtime Environment*
- **JVM** - *Java Virtual Machine*
- **For More Details about JDK ,JRE and JVM** Click Here.

How JVM Works – JVM Architecture? **Click Here.**

➢ Basic Syntax in java :

- Every programming language has its own set of rules to declare, define and work on its components.

➢ Keywords in Java :

- Keywords or Reserved words are the words in a language that are used for some internal process or represent some predefined actions.
- These words are therefore not allowed to use as variable names.

➢ Variables in Java :

- A variable is the name given to a memory location. It is the basic unit of storage in a program.
- **Learn about Variables in Java here:** Variables in Java

➢ Data Types :

- Each variable in Java has an associated data type. Each data type requires different amounts of memory and has some specific operations which can be performed over it.
- **Learn about different data types in Java here**: Data types in Java.