Introduction of Java -

1. Author :- James Gosling

2. Vendor - Sun Microsystem (Now merged in Oracle)

3. Initial Name - Oak

4. Programming Type - Object Oriented and Open Source

5. Present Name - Java

6. Project Name - Project Green

7. Slogan- WORA (Write Once Run Anywhere)

8. logo - Coffee Cup with Saucer

9. Extension - .java, .class, .jar

10. First Version - JDK 1.0

11. Present Version - JDK 22

What is Java?

Java is a high-level, object oriented programming language developed by Sun microsystems in the mid-1990s, now owned by Oracle Corporation. It is designed to be platform independent, meaning that Java code can run on any device that has a Java Virtual Machine installed. Java is known for its "Write Once, run anywhere" capability, which is made possible through the JVM. It is widely used for building applications, from mobile apps to large scale enterprise systems, web Applications and more.

History —

Java was developed by James Gosling at sun microsystems and launched in 1995. It gained popularity for its platform independence, and in 2010, Oracle took over its development after acquiring Sun Microsystem.

Feautures of Java -

① **Platform Independent -** Java is a platform independent language because it does not depend on OS or other things. Every system which have JVM installed are able to run java programs.

② **Object Oriented -** Java is a object-oriented programming language means it supports concept like inheritance, Polymorphism, Abstraction and Encapsulation. This make code modular, flexible and easier to manage.

③ **Simple and Familiar -** Java's syntax is straight forward and easy to learn. Especially for those who are familiar with C or C++. This makes the code modular, flexible and easier to manage.

④ Secure — It provide a secure environment for developing application with its security manager.

⑤ Robust — Java emphasizes early error checking and runtime checking which makes it robust and less prone to crashes.

⑥ High Performance — Java Uses Just-In-Time (JIT) compilers to convert bytecode to native machine code at run-time enhancing performance.

⑦ Multi thread — Allowing developer to write program that can perform many tasks simultaneously improving the efficiency and performance of application.