

What is Java?

Java is a general-purpose, high-level, Object-Oriented programming language. It was developed by James Gosling at sun microsystems in 1995.

Principles of Java :-

There were 5 major goals in the creation of Java.

- 1) It must be simple, Object-oriented and familiar.
- 2) It must be robust and secure.
- 3) It must be architecture-neutral and portable.
- 4) It must execute with high performance.
- 5) It must be interpreted, threaded and dynamic.

Why is Java so popular?

- * Platform independence.
- * Fundamentally Object-Oriented.
- * Easy to learn.
- * Versatile.

Use cases of Java:

- Building Android Apps.
- Java web applications
- software tools.
- Scientific applications
- ... and many more.

How Java works?

- 1) Programmer writes the source code.
- 2) Java source code is compiled into Bytecode.
- 3) Bytecode is executed over the virtual Machine [Runtime environment].
- 4) The program works over the machine.

