Characteristics of Java

Rajasekaran. S
Assistant Professor
Dept of IT

Characteristics of Java

- Simple
- Secure
- Portable
- Object Oriented
- Robust
- Multithreaded
- Architecture Neutral
- Interpreted
- High Performance
- Distributed
- Dynamic

Characteristics of Java

- ***Simple***
  - Easy to Learn
  - Most of the concepts are derived from CPP language which is already familiar to developers.

Characteristics of Java

- ***Secure***

  - Java program cannot harm other systems.
  - It provides security features for internet applications.
  - It provides secure way of web access.

Characteristics of Java

- ***Portable***

  - Java program can run in any environment that has JVM***(Java Virtual Machine).***

  - It can run on any platform.

  - Programs can be transferred to work in world wide web.

Characteristics of Java

- ***Object Oriented***
  - It is an object oriented programming language.
  - It provides maximum of oops features that provided by C++ language.
  - It is pure OOP language [C++ is semi object oriented language].

Characteristics of Java

- ***Robust***

  - Java supports error-free programming by strictly typed and performing run time checks.

  - It provides good exception handling procedures for robust application development.

Characteristics of Java

- ***Multithreaded***
  - Java provides integrated support of multi threaded programming.
  - Thread management is done by JVM.
- ***Architecture – neutral***
  - Java supports most kind of machines and architectures.
  - Java is independent of hardware.

Characteristics of Java

- ***Interpreted***
  - Java supports cross-platform code through the use of Java bytecode.
  - Bytecode can be interpreted on any platform by JVM.
- ***High performance***
  - Bytecodes are highly optimized.
  - JVM can executed them much faster .

Characteristics of Java

- ***Distributed***

  - Java was designed with the distributed environment.

  - Java can be transmit,run over internet.

- ***Dynamic***

  - Java programs carry with them substantial amounts of run-time type information that is used to verify and resolve accesses to objects at run time.