

# 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 C++ 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.