Presentation
on
Core Java

Content on java

- What is java?
- Where is java used?
- Feature of java
- Java virtual machine
- Java system overview
- Java program-development phase
- Advantage of java
- Disadvantage of java

What is java?

➢ Java is a high level, object-oriented programming language developed by sun Microsoft of USA in 1991.

➢ Originally called Oak by james gosling,one of the inventors of the language.

➢ Java is a first programming language which provide the concept of writing programs that can be executed using the web.

where is java used?

➢ Desktop application :- Media player,antiviruse etc.

➢ Enterprise application :-

   banking application, Business application.

➢ Mobile.

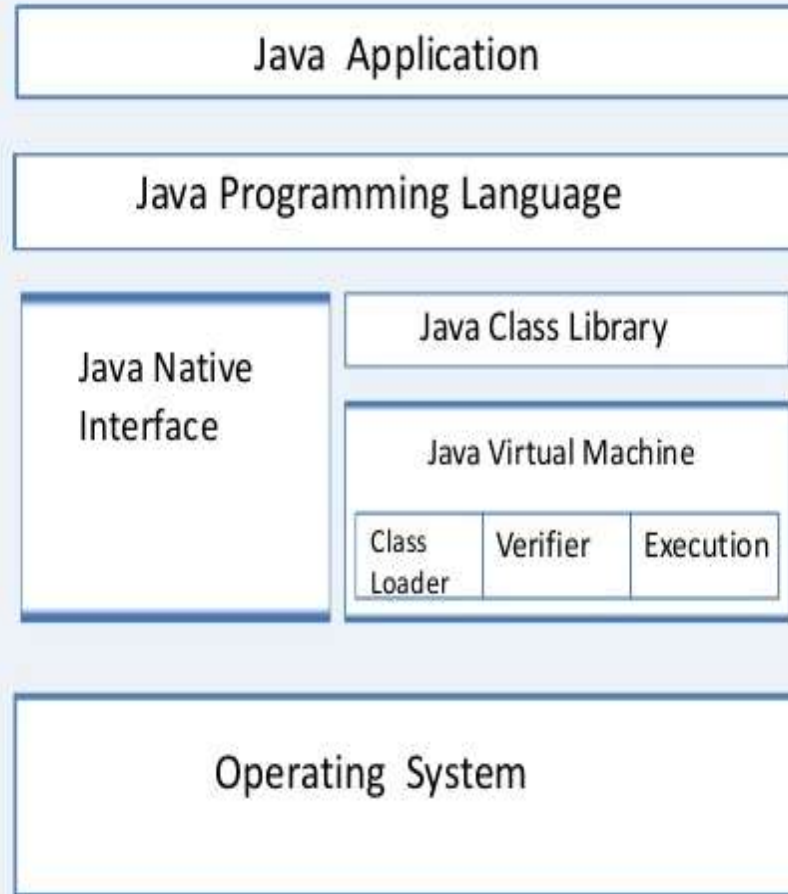➢ Embedded system.

➢ Games.

➢ Robotics.

java Features

- Compiled and interpreted
- Multithreading
- Platform-independent and portable
- Object-oriented
- Robust and secure
- Distributed
- Familiar
- Simple and small
- High performance

How java differs from c and c++

➢ Java does not include the C unique statement keywords sizeof,and typedef.

➢ Java does not contain the data types struct and union.

➢ Java does not support an explicit pointer type.

➢ Java does not have a preprocessor and therefore we cannot use #define,#include statement.

JAVA SYSTEM OVERVIEW

Java Application

Java Programming Language

Java Native Interface

Java Class Library

Java Virtual Machine

| Class Loader | Verifier | Execution |

Operating System

What is OOP?

➢ Object-oriented programming is a method of implementation.

➢ A language in which everything represent in the form of object is called object oriented programming language.

➢ It not only makes the program less complex but also makes the software reuse feasible and possible.

➢ Java is not truly object oriented programming language.

Concept of oop

- ➢ Object
- ➢ Class
- ➢ Encapsulation
- ➢ Inheritance
- ➢ Polymorphism
- ➢ Abstraction

Garbage collection

➢ Garbage collection is the mechanism that De allocate the memory of an object when it is no longer referenced by a variable.

➢ In c++, the memory of an object is released by use of delete operator.

➢ Java virtual machine determines when to free up the memory of an object.

Advantages of java

- ➢ java is simple language.

- ➢ Java does not support POINTERS.

- ➢ Java is first language in which programs can be executed using web.

- ➢ Write once run anywhere.

Disadvantage on java

➢Multiple inheritance can not support.

➢No support for low level programming.

➢No control over Garbage collection.

Java virtual machine

➢ Java virtual machine is the like usual computer which translate high level language into machine language.

➢ Just like that java virtual machine also translate Bytecode into machine language.

➢ JVM are available for many hardware and software plateform.