

# Lecture -1

## Topics:-

1. What is Java ?
2. What can we do using Java ?
3. Types of Application.
4. Java Platforms/Editions.
5. What is Jdk, how to download and install ?
6. First Java Program.

## Java

- ➔ It is object-oriented, high level programming language.
- ➔ It was developed by Sun MicroSystem in the year 1995.
- ➔ It is also a **platform**.

**Platform:** Any software or hardware environment in which a program runs.

## What can we do using Java

- ➔ We can develop different applications like
  - i) Desktop Application(pdf reader, antivirus, music player).
  - ii) Web Application (gmail, non transaction application).
  - iii) Enterprise Application(Banking applications, irtc)
  - iv) Mobile Application
  - v) Embedded System
  - vi) Game

## Types Of Applications

- 1) Standalone Application (Awt, swing)
- 2) Web Application(Servlet,jsp,Spring,Hibernate)
- 3) Enterprise Application (EJB)
- 4) Mobile Application(Android)

## Java Platforms/Editions

### 1) Java SE(Standard Edition)

It is a platform, which include java programming API's such as

java.lang (Default)  
java.io

java.net  
java.util  
java.sql  
java.math  
and so on

It includes core topics like OOPs, String, Regex, Exception, Inner Class, Multithreading, collection etc.

## 2) **Java EE(Enterprise Edition)**

Web Application.

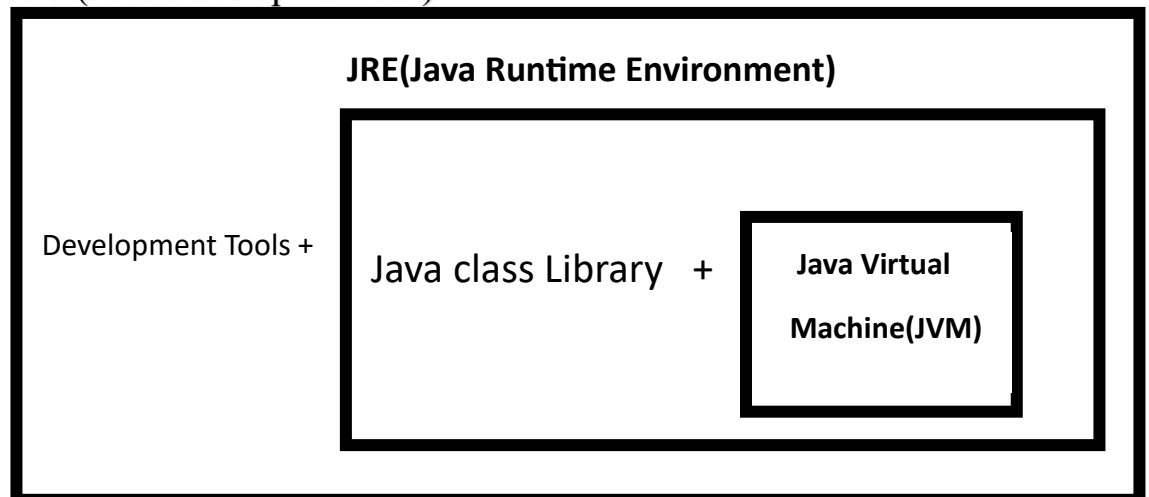
## 3) **Micro Edition (Mobile Development)**

## 4) **Java FX**

- ➔ Internet application(Email, Skype, zoom)
- ➔ It uses a lightweight user interface API

## **JDK**

JDK(Java Development Kit)



## First Program:-

```
public Class FirstJavaProgram
{
    public static void main(String args[])
    {
        System.out.println("Hello EveryOne");
    }
}
```

Save file as below

FirstJavaProgram.java