* JAVA *

Introduction

The set of instructions written by using different programming languages such as c, c++, ctt (c shoop), JAVA, phython... etc. To perform various operations of banking, gamming social media, etc. are known as programs.

- The set of programs put together forms software Appl

 Application | product | project | tool / built; etc.
- Tava is a programming language which is used extensively then that of other programming languages due to its wide range of features.

Features of Java

- 1. Java provides thousands of already built Java programs in the form of inbuilt libraries that makes easy to develop other applications. Some of the inbuilt library programs are Object, Array, String, Wrapper classes, etc.
- and it's basic principle's such as
 - i) Encapsulation.
 - ii) Inheritance.
 - iii) Polymorphism.
 - iv) Abstraction.
 - 3. Java is <u>platform</u> independent language (or) Architecturally <u>nuetral</u>. Java program written in one platform can be exicuted in any other platforms.

Note: Any programming languages Consisting of english

Alphabets & digits, Special Symbols. Which Can't be under

-standable by the machine. Hence, we need the translator

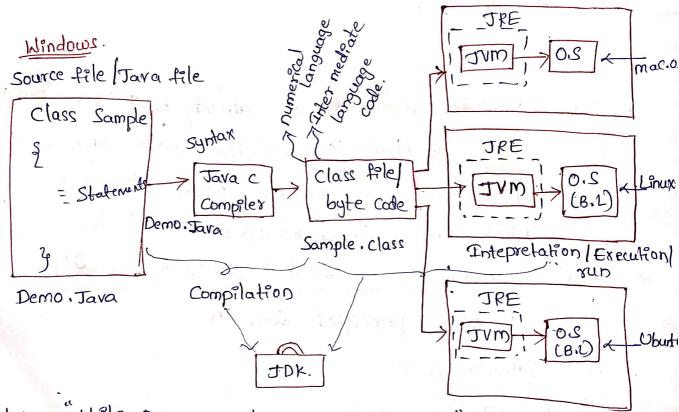
Softwares to perform the translation blue them. To

develop the application we have two translators in the

market such as

- 1. Compiler (performs translation known as compilation)
- 2. Interpretar (performs translation known as interpre -tation).

How Java is Plat-form independent language



Note: "Write Once, execute any no. of times" -7 Java programing.

O.S -> Operating System.

B.L -> Binary Language.

JVM -) Java Vertual Machine.

JRE -) Java run time Environment.

JDK -) Java development kit.

To execute a Java program we need to use both the translations such as -

7. Compilation :

The Source file is translated into the class file by Javac only if the program is according to the syntam (format of the program).

The class file obtained consisting of numeric language which can neighber understandable by the programmer not even by the machine. Hence, it is known as Intermediate language code.

2. Interpretation / Execution | Run:

the class file Can only be understandable the JVM & file class file Created based upon the fiftherent operating Systems). Due to this a class file Created from of perticular platforms can be executed in any other platforms.

Structure of Java program

Class Class Name ? Il pegin of class block publice Public static void main (string [] args).

Statements;

3 11 End of class block.