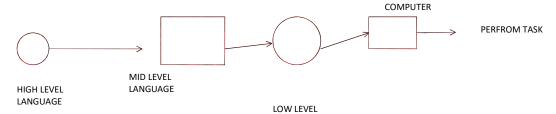
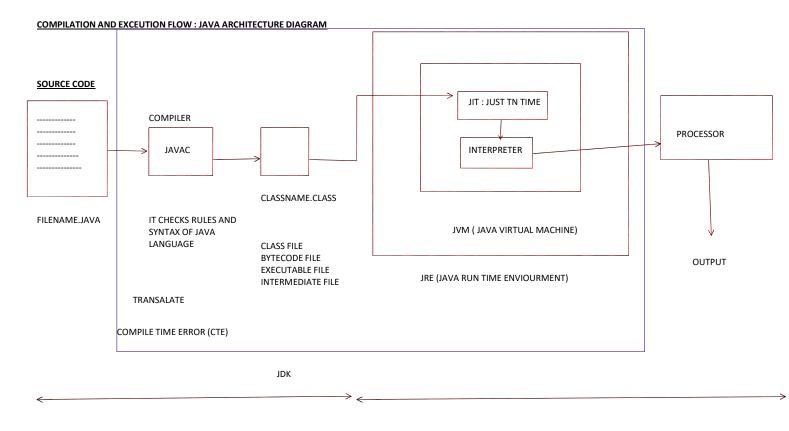
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FEATURES OF JAVA

A LIST OF MOST IMPORTANT FEATURES OF JAVA LANGUAGE IS GIVEN BELOW:

- SIMPLE
- OBJECT-ORIENTED
- PROTABLE
- PLATFORM INDEPENDENT
- SECURED
- ROBUST
- ARCHITECTURAL NEUTRAL
- INTERPRETED
- HIGH PERFORMANCE
- MULTI THREADED
- DISTRIBUTED
- DYNAMIC





COMPILATION PHASE EXECUTION PAHSE

COMPILER/INTERPRETERS

IT IS SYSTEM SOFTWARE, THEY ARE USED TO TRANSALATE A HIGH LANGUAGE INTO MACHINE UNDERSTABLE LANGUAGE

WHAT IS JVM (JAVA VIRTUAL MACHINE)

IT IS A SOFTWARE WHICH PERFORMS THE OPERATION LIKE A PHYSICAL MACHINE BUT ITS PHYSICAL EXISTENCE IS NOT THERE

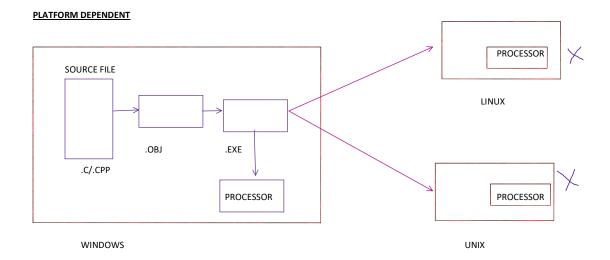
WHAT IS JRE (JAVA RUN TIME ENVIOURNMENT)?

IT IS A SOFTWARE WHICH PROVIDES ALL THE NESSESARY LIBRARIES REQUIRED TO EXECUTE THE JAVA PROGRAMS

WHAT IS JDK (JAVA DEVELOPMENT KIT)

IT IS A SOFTWARE WHICH CONTAINS THE NECESSARY COMPONENTS REQUIRED FOR COMPILE AND EXCEUTE THE JAVA PROGRAM

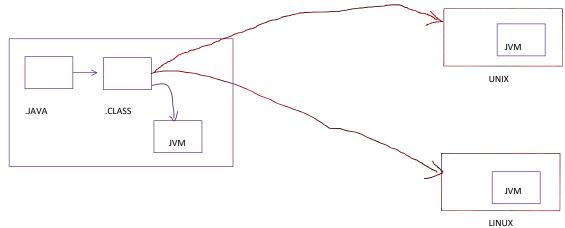
- ALL JAVA STATEMENTS ARE SAVE AS JAVA FILES WITH AN EXTENSION " .JAVA"
- THE COMILER GENERATES CLASS FILE BASED ON JAVA FILE
- CLASS FILE CONTAINS BYTECODE WHICH UNDERSTOOD BY ONLY JVM
- JVM IS AN INTERPRETER, IT CONVERTS BYTE CODE LINE BY LINE INTO MACHINE LEVEL LANGUAGE
- JAVA COMPILER AD JRE TOGETHER IS CALLED AS JDK
- JAVA IS A PLATFORM INDEPENE, i.e, ONLY NEED CLASS FILE TO EXECUTED IN ANY PLATFORM



PLATFORM DEPENDENCE

- A PROGRAM COMPILED AND EXECUTED IN ONE PLATFORM CAN NOT EXECUTED DIRECTLY IN OTHER PLATFORM JUST BY COPYING .EXE FILE
- THIS FEATURE IS KNOWN AS PLATFORM DEPENDANCE
- IF YOU WANT TO EXCEUTE THE PROGRAM IN ANOTHER PLATFORM WE NEED TO COMPILE AGAIN AND THEN EXCEUTE IT.

PLATFORM INDEPENDENT



PLATFORM INDEPENDENT

PROGRAM WRITTEN IN NE PLATFORM CAN BE EXECUTED IN OTHER PLATFORM WITHOUT RECOMPILING AGAIN. THIS FEATURE IS KNOWN AS PLATFORM INDEPENDENT

SOFTWARE REQUIRED

• JAVA COMPILER JRE JDK

JDK 1.8

EDITORS

- NOTEPAD
- WORDPADNOTEPAD++
- TEXTPAD
- EDIT PLUS ECLIPSE IDE