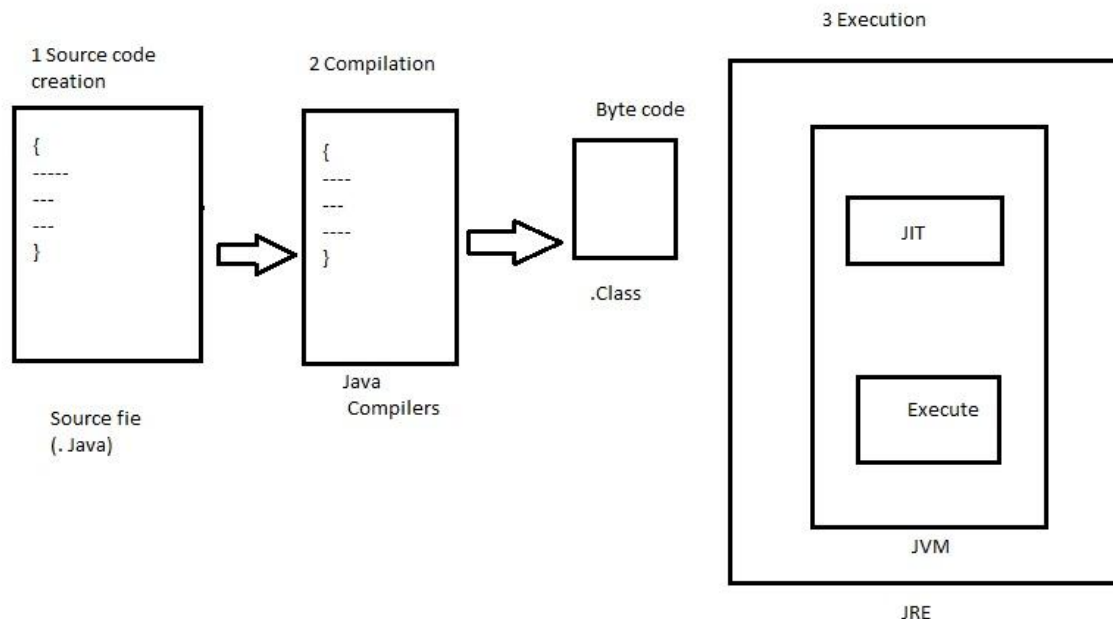**JDK Components**

Java program creation includes three main steps:
1. Source code creation
2. Compilation
3. Execution

Source code creation

Source code is created by java programmer using java program language syntax. Source code must be saved with .java as an extension. It can be created using any text editor such as notepad and notepad++.

Compliation

Source code compilation is done by java complier. Java compiler verifies the syntax of source code and it generates bytecode.

Bytecode will be saved with extension as .Class. If there are any errors in syntax, then compilation error is displayed.

Execution

Java virtual machine(JVM) is responsible to execute java programme. JVM conatins Just in time compiler(JIT) used to convert byte code into machine level format.

Java Runtime Environment(JRE) is a software component, which create runtime environment to run java programme.

Java development kit (JDK) is a software tool which contains predefined libraries, provided by language developer to build java programming.

We can run java byte code in any platform, hence java is called as a platform independent programming language.

Java program syntax

```
Class Classname
{
        Public static void main( String args[])
{
---
----
}
```

}
For running java prog:
1. Save file in a directory as .java
2. From command prompt, traverse to directory, and complie using "javac filename.java".
3. Execute the file by giving "Java Classname".

+ Operator
Concatenation
The process of combining two string values are known as concatenation.

```
Class demo
{
Public static void main(String args[])
{
System.out.println("ASH"+"WINI");
System.out.println(10+20);
}
```

O/P
ASHWINI
30

```
class print
{
        public static void main(String args[])
        {
    System.out.println("ID"+ "\tName"+"\tMarks" +"\n1"+"\tALEX"+"\t80");
        }

}
```

O/p

ID	NAME	Marks
1	Alex	80