

7:45 AM	2:00 PM	Mobile Computing
8:00 AM	7:00 PM	
1:00 PM		Database
		Backend Server
		Frontend
		Web Tech (Full Stack)
		Mobile Apps

Java is a language

- Syntax
- Rules

java is an oop(Object Oriented programming) language

		java 8
1. Major Pillar	OOP	Functional
- Abstraction		
- Encapsulation		
- Modularity		
- Hirerachy		
2. Minor Pillar		
- Polymorphism		
- Persistance		
- Concurrency		

Abstraction

- getting to know the essential things.
- eg -> Riding a bike, Using Mobile
- eg ->

Encapsulation

- Binding of Data and code together
- Ac, Mobile, Bike, Car
- eg

Modularity

- Dividing a task into smaller units/tasks
- eg Mobile device created with multiple components

Hirerachy

- Reusability

Minor Pillars

- 1. Polymorphism
 - One Entity that takes multiple forms
 - eg -

Types of Polymorphism

- 1. CompileTime
- 2. RunTime

2. Persistance

- To store(save) the data permanantly
-

3. Concurrency

- Multitasking
- Executing multiple tasks at the same time

- OOSD - Object Oriented Software Development
 - Developing an application using the OOP way
 - it has got 3 stages
 - 1. OOA (Object Oriented Analysis)
 - 2. OOD (Object Oriented Design)
 - 3. OOP (Object Oriented Programming)

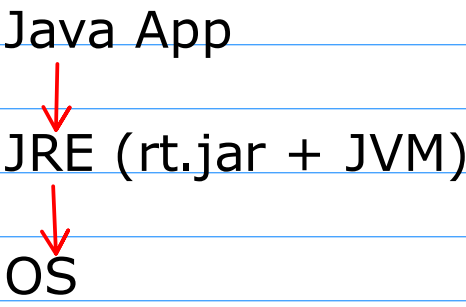
Attentandance Application

Student	Student	Employee
Employee	- rollno	- empid
Attendance	- name	- name
	- mobile	- salary
	- email	

Java

JDK -> Java Development Kit
tools + docs + JRE (Java Runtime Environment)

JRE -> core libraries (rt.jar) + JVM (Java Virtual Machine)



Oracle -> JDK
Open source

IDE - IntelliJ

JDK -> STS

IntelliJ-> JDK

JBR

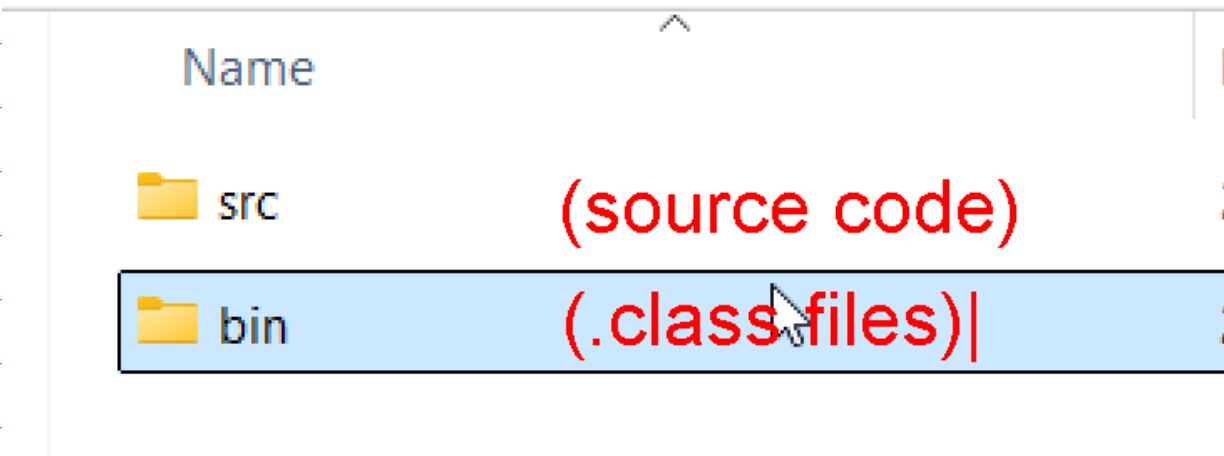
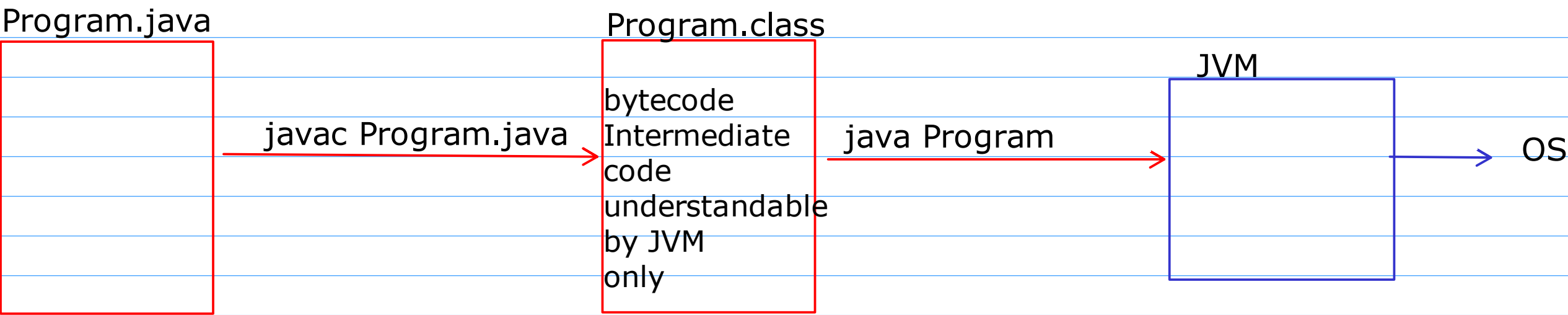
JDK -> IDE(STS/IntelliJ) / Editer(Notepad,Vscode)

Editer -> Which is used to edit any type of text files.

IDE (Integrated Development Environment)

- Project Structure
- Automated RuntimeEnvironment

javac -> java compiler
java
javap



src->Program.java

javac -d ..\bin Program.java

SET CLASSPATH=..\bin

java Program

CLASSPATH -> Is a java environment variable

javac -d ..\out\production\cmd_demo03 Program.java

SET CLASSPATH=..\out\production\cmd_demo03

java Program

Program01

```
class Prog01{  
main(){  
  
}  
}
```

Program02

```
class Prog02{  
main(){  
  
}  
}
```

javac Program01 Program02

Prog01.class, Prog02.class

java Prog01

java Prog02

Language Fundamentals

class

object

reference