Key Points

- James Gosling, Mike Sheridan, and Patrick Naughton commenced the Java language project in June 1991.
- The small team of sun engineers called Green Team.
- The first name of java is "Green Talk" later changed to "OAK" which was changed to "JAVA" in the year 1995.
- The first extension of java program is '.gt'
- The first browser which was developed using java language is "Hot Java Browser".
- The first version of java is JDK 1.0 and the latest version is Java SE 21

There is a team of developers, they need to create software which will work along with hardware devices by using traditional programming languages like c and c++

Example: washing machines

Because of using pointer concept the software is crashed every time

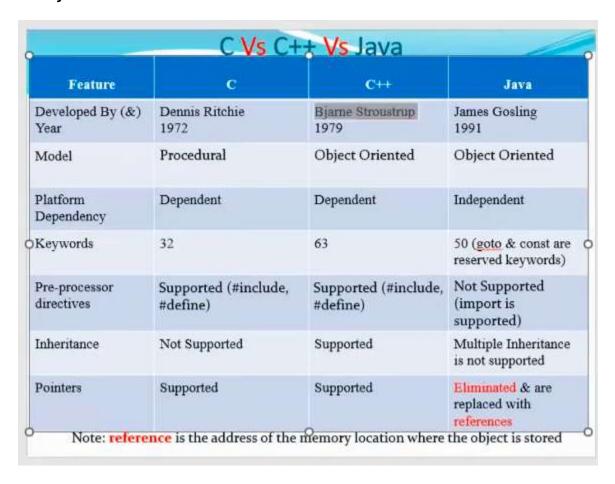
What is a pointer

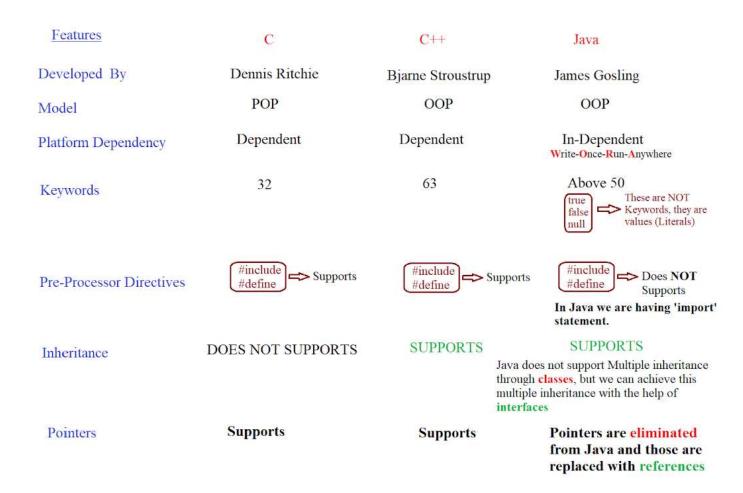
This is a concept which is presented in C and C++

Pointers holds address locations

So, to avoid the crash of software they need to create a new programming language named 'Green talk' after that its name has changed to OAK then it is changed to JAVA

The first extension of our java program is ".gt" then changed to ".java "





POP (procedure Oriented Programing languages)

Maily concentrates on step-by-step flow of executions

Example first it executes

Method 1

Method 2

Method 3

Method 4

OOP (object-oriented programing language)

It mainly concentrates on data security

Here we can execute any method as per our requirements

Java 8 version features had a huge impact, it is a revolted version.

The new features in java 8 are

Lambda expression

Functional interfaces

Stream API

Method references

New date time API

Parallel array sorting

Optional class ...etc.

Java Version Firstory

Version	Release Date		
JDK 1.0	January 23, 1996		
JDK 1.1	February 19, 1996		
J2SE 1.2	December 8, 1998		
J2SE 1.3	May 8, 2000		
J2SE 1.4	February 6, 2002		
J2SE 5.0	September 30, 2004		
Java SE 6	December 11, 2006		
Java SE 7	July 28, 2011		
Java SE 8 🌙	March 18, 2014		
Java SE 9	September 21, 2017		
Java SE 10	March 20, 2018		
Java SE 11✓	September, 2018		
Java SE 12	March 19, 2019	Java SE 15 September 2	020
Java SE 13	September 17, 2019	Java SE 16 March 2021	
Java SE 14	March 17, 2020	Java SE 17 September 2	021

Below run program in ClassB

```
☐ ClassA.java ×

| ☐ ClassA.java ×
| ☐ Training | ☐ src | ☐ com,pack1 | ☐ ClassA |
                                                                                        ▶ 🔛 Training ▶ 🖶 src ▶ 🌐 com.pack2 ▶ 🧿 ClassX
     1 package com.pack1;
                                                                                          1 package com.pack2;
     3 public class ClassA
                                                                                          3 public class ClassX
              public void meth1()
                                                                                          6 }
                    System.out.println("Class A method");

☑ ClassB.java ×
  > ➡ Training > ∰ src > ∰ com.pack1 > Q ClassB > ← main(String[]): void
    1 package com.pack1;
                                                                                        © Console ×
<terminated> ClassB (Java Application) C:\Program Files\Uava\jdk-17\bin\javaw.exe (14-Feb-2025, 8:21:33 am - 8:21:34 at
                                                                                        Console X
    3 public class ClassB
              public static void main(String[] args)
                   ClassA aobj=new ClassA();
                   aobj.meth1();
   10 }
   11
```

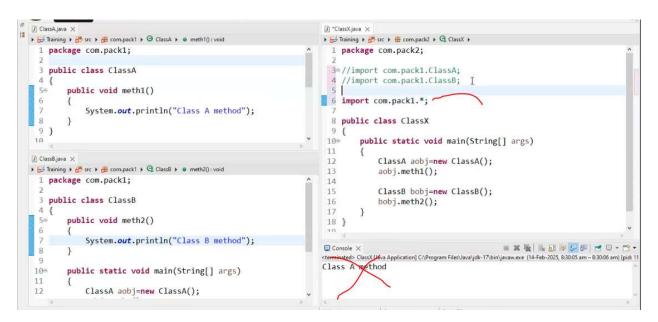
Note

If the both the classes (clsssA,classB)are in the same package we can use those classes according to our requirements. No problem with this.

But if both the classes are not in same package we should 100% need to use Import.

Below run the program in ClassX

```
ClassA.java X
▶ 🔂 Training ▶ 🥵 src ▶ 🏨 com.pack2 ▶ 🧣 ClassX ▶ 🗳 main(String[]) : void
                                                                 1 package com.pack2;
   1 package com.pack1;
   3 public class ClassA
                                                                 3 import com.pack1.ClassA;
          public void meth1()
                                                                 5 public class ClassX
   6
               System.out.println("Class A method");
                                                                        public static void main(String[] args)
   8
                                                                 8
   9 }
                                                                9
                                                                             ClassA aobj=new ClassA();
                                                                10
                                                                             aobj.meth1();
  ClassB.java X
                                                                11
  ▶ 🔛 Training ▶ 🚜 src ▶ 🚜 com.pack1 ▶ 🭳 ClassB ▶ 💣 main(String[]) : void
                                                                12 }
   1 package com.pack1;
                                                                13
   3 public class ClassB
   4 {
  5e
           public static void main(String[] args)
                                                                                                     6
                                                               Console X
               ClassA aobj=new ClassA();
                                                               <terminated> ClassX [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (14-Feb-2025, 8:30:05 am - 8:30:06 am) [pid: 11
               aobj.meth1();
   9
  10 }
  11
```



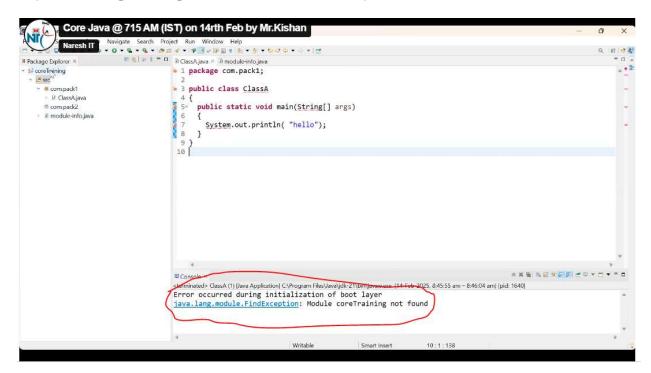
By using the above statement import com.pack1*;

In this case all the classes in com.pack1 will be imported

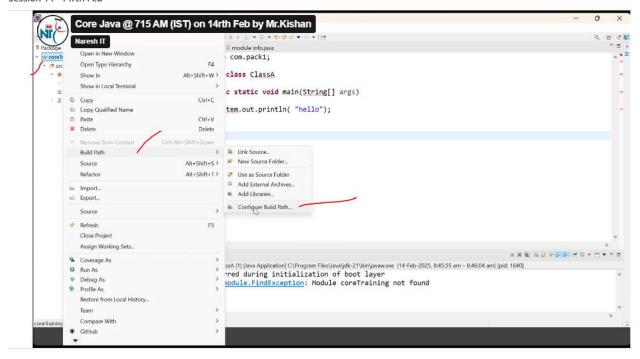
This is not recommended because we not requied all classes instead of import only required classes.

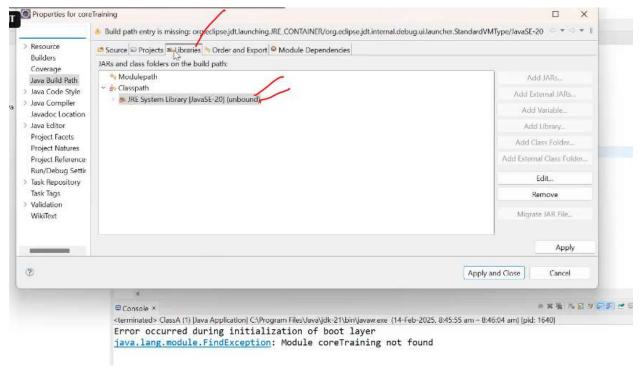
```
1 package com.pack1;
                                                                           1 package com.pack2;
    public class ClassA
                                                                           3@import com.pack1.ClassA;
                                                                        4 import com.pack1.ClassB;
         public void meth1()
                                                                          6 public class ClassX
             System.out.println("Class A method");
                                                                                  public static void main(String[] args)
 8
                                                                          20
 9 }
                                                                          9
10
                                                                          10
                                                                                      ClassA aobj=new ClassA();
                                                                                      aobj.meth1();
☑ ClassB.java ×
> 😅 Training > 👺 src > 进 com.pack1 > 🥞 Class8 > ● meth20 : void
                                                                          13
                                                                                      ClassB bobj=new ClassB();
 1 package com.pack1;
                                                                          14
                                                                                      bobj.meth2();
                                                                         15
 3 public class ClassB
                                                                          16 }
                                                                          17
         public void meth2()
                                                                          18
             System.out.println("Class B method");
                                                                        Sterminated Chack Use Application] C\Program Files\Java\jdk-17\bin\javaw.exe (14-Feb-2025, 8:30.05 am - 8:30.06 am)
Class A method
 8
         public static void main(String[] args)
10=
11
             ClassA aobj=new ClassA();
```

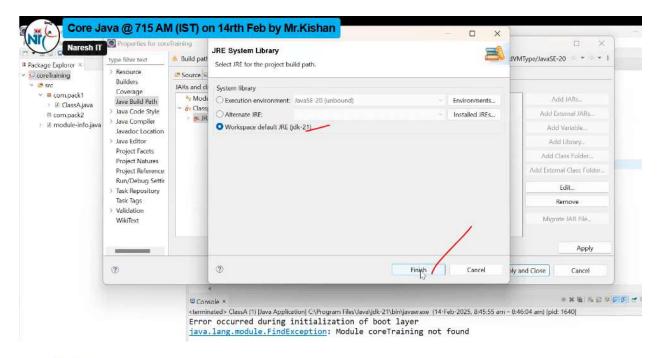
If you are getting below error kindly follow this



Session 14 - 14rth Feb







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