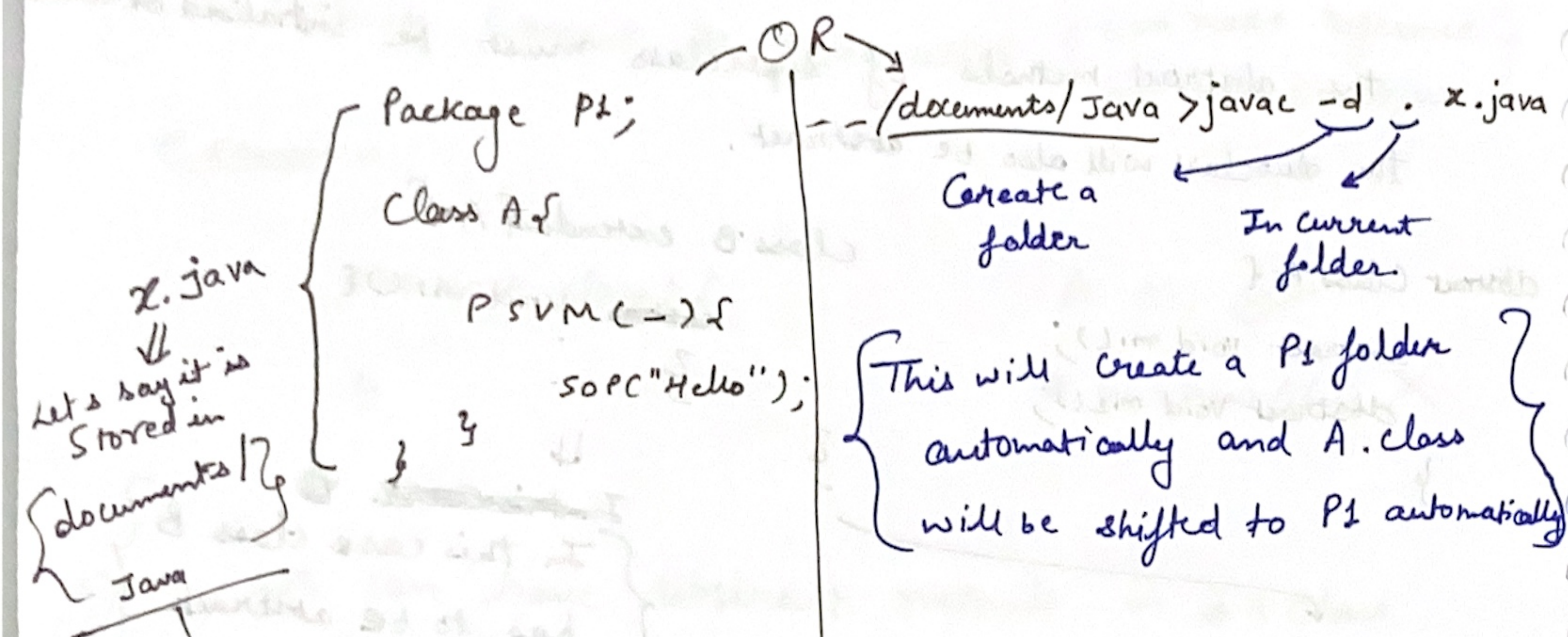


Packages ⇒

⇒ Naming & visibility mechanism of Java.

⇒ In Java packages are implemented through folder, but folder doesn't mean it will always be a package.



In this scenario we need to make P1 and manually shift A.class to that folder.

Mac
-- /documents/Java > javac -d user/downloads/Testing x.java.

Win
C:/Test > javac -d e:/xyz x.java

After creating P1 using -d in any folder

• C:/test > java A } error

documents/Java > java A } error

If we have used (-d .)

{ C:/Test > java P1.A }

C:/Test > javac -d e:/xyz x.java

C:/Test > set classpath = %classpath% ; e:/xyz

C:/Test > java P1.A

Let's say we want to ~~create~~ transfer packages, for that we want to create zip file, for that in java we have java archive - jar file

C:/Test > jar -cf myjar.jar
↓
 { In myjar.jar }
 file

In different PC ↓

lets we put that into e:/xyz

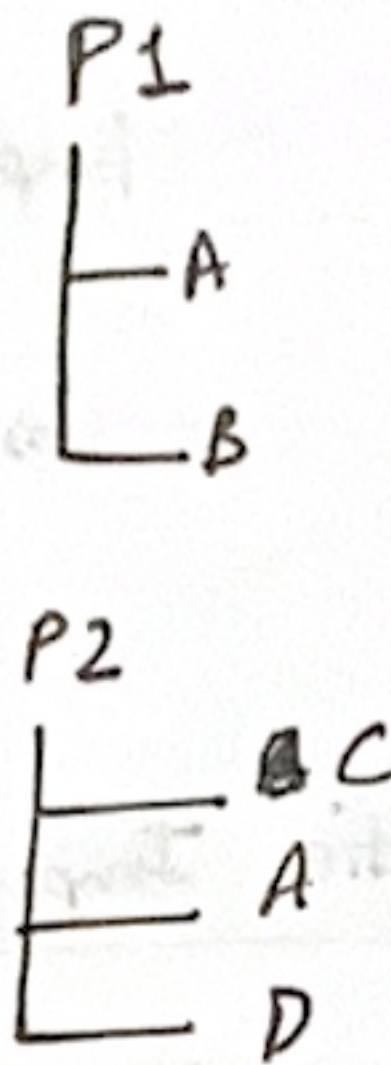
d:/abc > set classpath = %classpath% ; e:/xyz/myjar.jar

d:/abc > java myclass.

Visibility ⇒

- You can import more than one packages containing classes with same name and it will not produce any error until we use a class which is there in more than one packages which are imported with star form.

```
import P1.*;
import P2.*;
;
B b; ✓
D d; ✓
A a1; ✗ error
;
```



P2.A a1 = new P2.A(); we have to use fully qualified name.

ex) java.util.Scanner sc = new java.util.Scanner();
 ↳ By this we can avoid import statements.

Package P1;

Class A {

...
 }

Package P2;

import P1.*;

Class B {

PSVM (-) {

A a1 = new A();

...
 }

↳ error as A is default class.

↳ We would need to make A public to access it in B.

Package P1;

Public class A {

int i = 1;

Private int j = 2;

Protected int k = 3;

Public int m = 4;

...
 }

Package P2;
 import P1.*;
 Class B extends A {

PSVM (-) {

SOP(i); ✗
 SOP(j); ✗
 SOP(k); ✗
 SOP(m); ✗

non-static
 to static
 access.

}

Package P2;
 import P1.*;

Class B extends A {

Void m1() {

SOP(i); ✗

SOP(j); ✗

SOP(k); ✓

SOP(m); ✓

...
 }

Package P2;
 import P1.*;
 Class B {

PSVM (-) {

A a1 = new A();

SOP(a1.i); ✗

SOP(a1.j); ✗

SOP(a1.k); ✗

SOP(a1.m); ✓

...
 }