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User-Defined Packages in Java

=> User Defined Package :-

-> The package created by the user or developer according to the project requirements is known as User Defined Package

-> Syntax :

```
package package_name;  
  
package  
package_name.sub_package_name;
```

-> Naming Convention for Package :-

1. Same 4 rules as an identifiers

2. -> company domain in reverse order

-> client name

-> project name

-> module name

=> For example :-

www.smartprogramming.in (my
company domain)

ICICI (client)

Loan (Project name)

Home Loan, Car Loan, Jewellery

Loan etc - Sub-package

->

in.smartprogramming.icici.loan.home_loan

->

in.smartprogramming.icici.loan.car_loan

-> Program :-

-> Step 1 :-

```
package pkg;
```

```
class PackageDemo
```

```
{
```

```
    public static void main(String[] args)
```

```
{
```

```
        System.out.println("hello");
```

```
}
```

}

-> Step 2:

1. javac -d . PackageDemo.java (d represents the directory and . represents the current directory)

2. javac -d C:\aaa PackageDemo.java

-> Step 3:

1. java pkg.PackageDemo

2. set classpath=C:\aaa

java pkg.PackageDemo

-> Points to remember :-

1. Package declaration must be the first statement in java program

2. There can be only one package statement

=> How to import packages :-

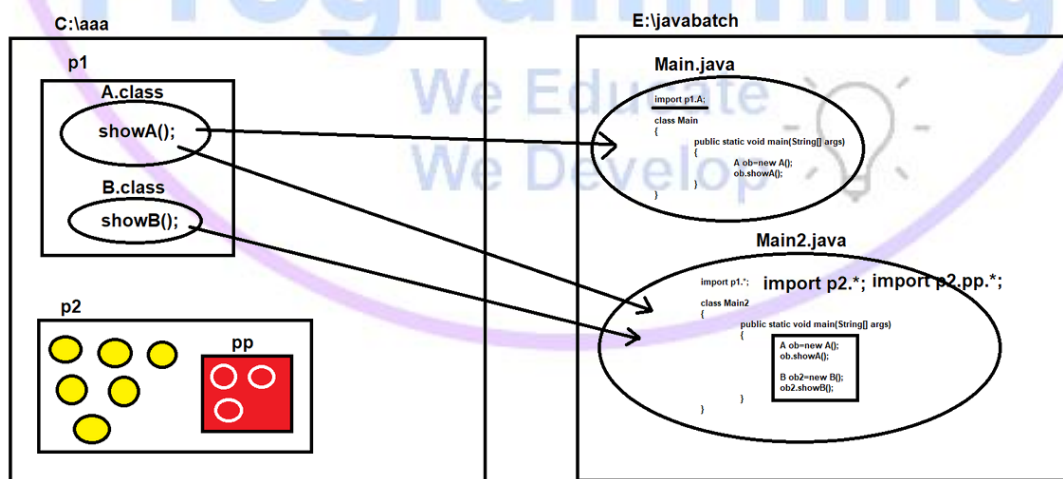
-> There are 3 ways to import packages in java
:-

1. by using import
package_name.ClassName;

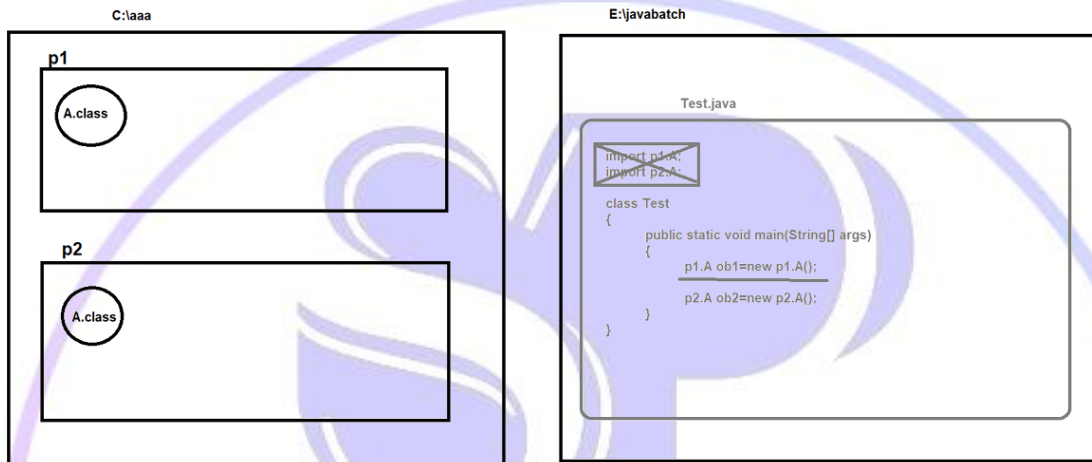
-> It will import only particular class file
from the provided package name

2. by using import package_name.*;

-> It will import all the classes from
provided package name



3. by using fully qualified ClassName;



-> Points to remember :-

1. We can use any number of import statement
2. import statement will come immediate after the package statement
3. import statement does not load the class in the memory, it only provides the accessibility to use the classes

4. If we use import statement, then only class will be imported but sub-packages will not import

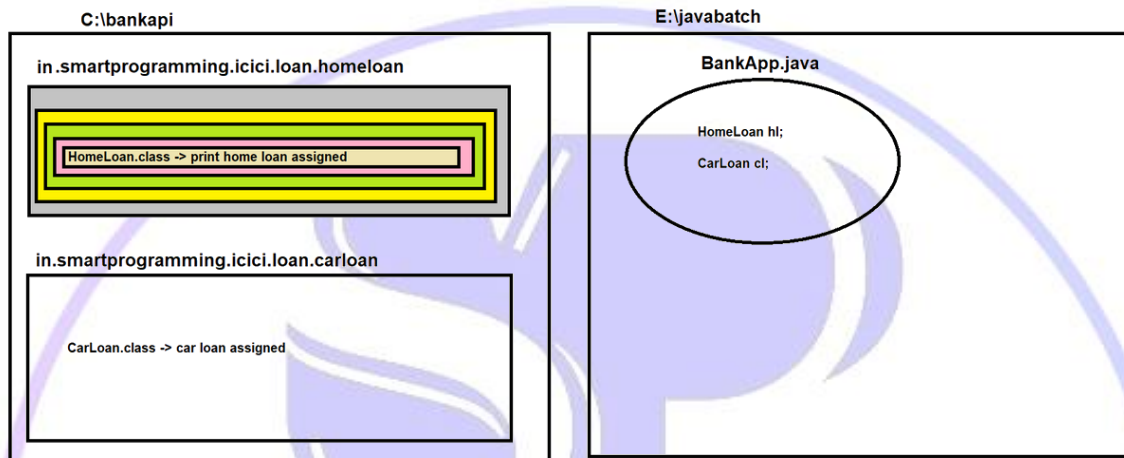
Interview Question :-

1. What is difference between set path and set classpath ?

-> By using set path=C:\Program Files\Java\jdk1.8.0_45\bin, System will understand java commands with the help of path variable

-> By using set classpath=----, it will set the classpath where the .class file is saved

Task :-



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