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Aim : Create, debug and run Java program based on package.

Theory :

A Java package is a group of similar type of classes, interfaces and sub-packag

package in Java can be categorized in two from, built-in-package and user-define package.

Built-in Packages

The Java API is a library of prewritte classes, that are free to use, included in Java Development Environment.

The liabrary contains component for managing input, data-base programing, and much much more.

The library is divided into Packages and classes. Meaning you can either import a single class [along with its method and attributes], or a whole package that they contains all the classes that belong to the specified package.

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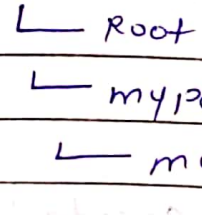
User - defined Packages

To create your own package, you need to understand that Java uses a file System directory to store them. Just like folders on your computer.

Example



Syntax

```
import Package.name.class;   // Import a single class
import Package.name.*;       // Import the whole package.
```

Advantage of Java Package.

1] Java package is used to categorize the classes and interfaces so that they can be esily maintained.

2] Java package provide access protection.

3] Java package Removes naming collision

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Subpackages: packages that are inside another package are the Subpackage. These are not imported by default, they have to imported explicity. Also member of Subpackage have no access privilleges .i.e; they are considered as different package for protected and default access specifiers.

Example:

```
Import Java.util.*;
```

util is a Subpackage created inside Java package.

Conclusion: Hence, we successfully Create, debug and run Java based on package.

Program :-

```
package pack;
public class A {
    public void msg() {
        System.out.println("Hello");
    }
}
```

```
Package mypack;
import pack.*;
class B {
public static void main(String args[]) {
    A obj = new A();
    obj.msg();
    }
}
```