

OBJECT ORIENTED PROGRAMMING USING



Java

Let's explore technology
together to live in the future



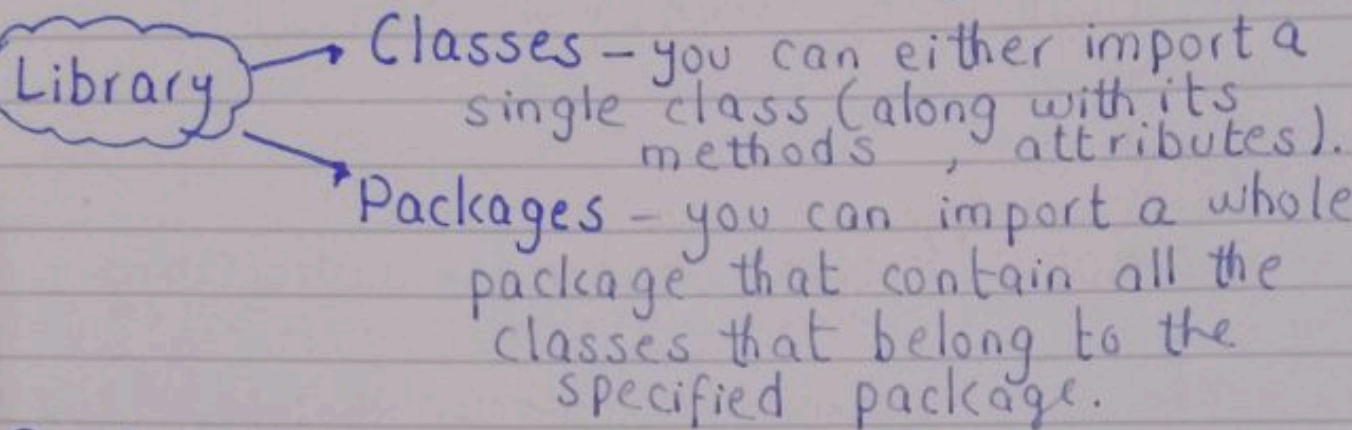
Checkout more on
<https://github.com/Sy-hash-collab>



Sy-hash-collab

Java Packages: A package in Java is used to group related classes.

- **Built-in packages:** (packages from Java API)
The Java API is a library.



Syntax:

```
import package_name.Class; // import single class
import package_name.*; // import whole package.
```

Import a Class: If you want to use, for example, the Scanner class,

```
import java.util.Scanner;
```

In the example, java.util is package while Scanner is class of java.util package.

To use the Scanner class, create an object of the class and use any of available method i.e. nextLine().

```
import java.util.Scanner;
class MyClass {
    public static void main (String[] args)
```

```
{ Scanner sc = new Scanner (System.in);
  System.out.println ("Enter name:");
```

```
String name = sc.nextLine();
  System.out.println ("Name:" + name);
```


- User-defined : Create your own packages.

=> For class

```
import s.StudentResult;
```

```
public class TeacherData{
```

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

```
{    // creating object
```

```
    StudentResult q = new
```

```
        StudentResult();
```

```
}
```

Note: If you want to use a class in another class, then you must import it, otherwise it will give error.

=> For package:

```
import s.*; // all classes from that  
package have been imported  
in your program.
```

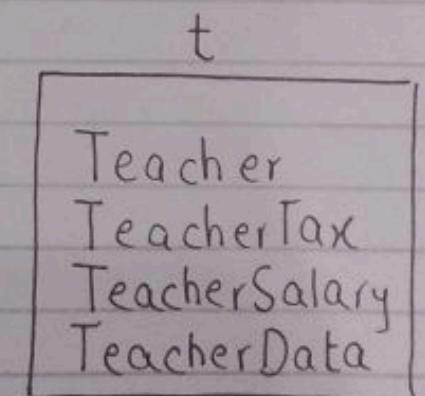
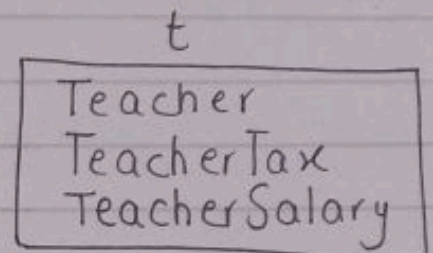
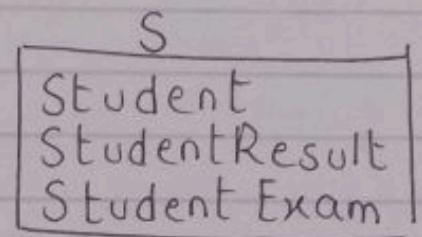
=> Package declaration:

```
package t;
```

```
public class TeacherData
```

```
{
```

```
}
```



```
import MyPackage.MyClass;

public class PackageDemo
{
    public static void main (String [] args)
    {
        MyClass obj = new MyClass();

        obj.set_value(10);
        obj.display_value();
    }
}
```

```
package MyPackage;

public class MyClass
{
    int x;
    public void set_value (int n)
    {
        x = n;
    }

    public void display_value ()
    {
        System.out.println("Value: " + x);
    }
}
```


How to input data from user?

```
import java.util.Scanner;
```

```
public class TeacherData  
{ public static void main (String [] args)  
  { Scanner s = new Scanner(System.in)
```

```
System.out.println ("Enter name:");
```

```
String name = s.nextLine();
```

```
System.out.println ("Teacher name: "+ name)
```

```
}  
}
```