

# SNS College of Technology

(An Autonomous Institutions)



Department of Informaion Technology

23CSB201-Object Oriented Programming

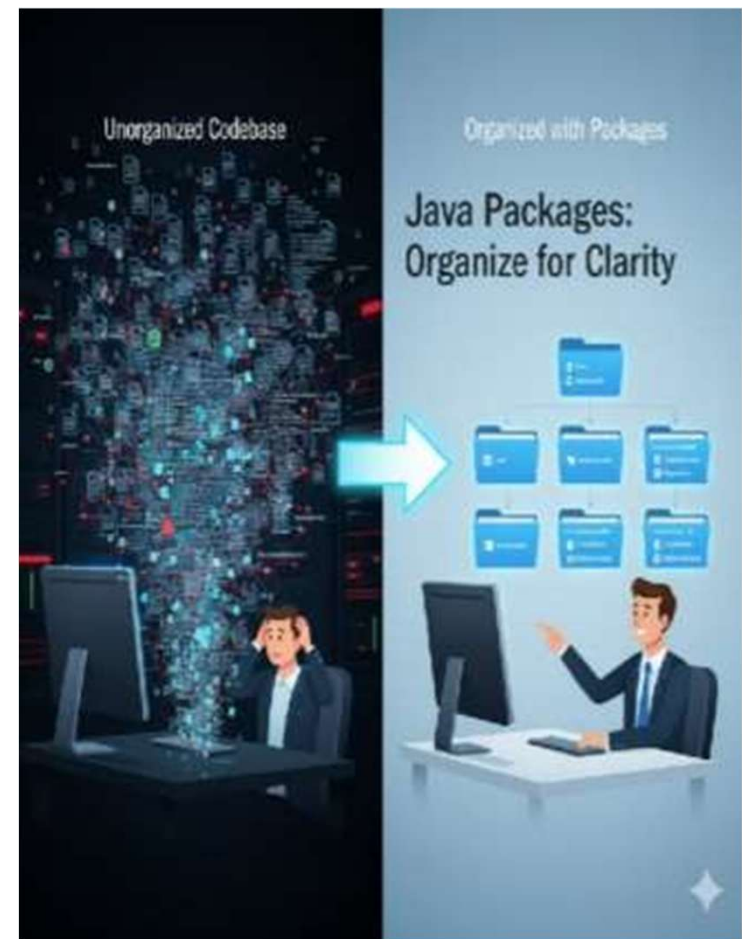
**Topic: Packages**

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# Packages

## *DT-Empathize*

Developers often struggle to organize large codebases efficiently, highlighting the need for Java Packages to group related classes like folders in a file system for better maintenance and reuse.



# Introduction



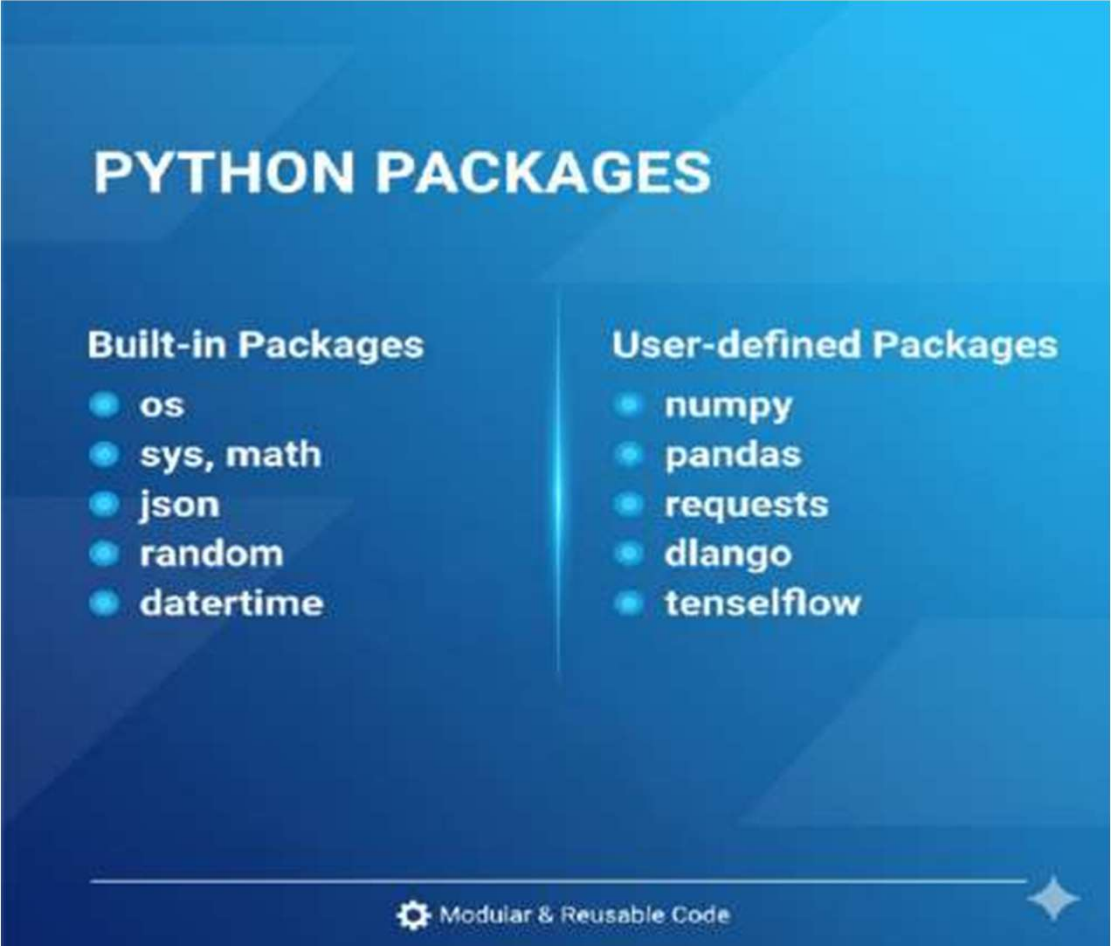
# Key Concepts

## Key Concepts of Packages in Java



# Types of Java Packages

- Built-in Packages
- User-defined Packages



**PYTHON PACKAGES**

**Built-in Packages**

- os
- sys, math
- json
- random
- datetime

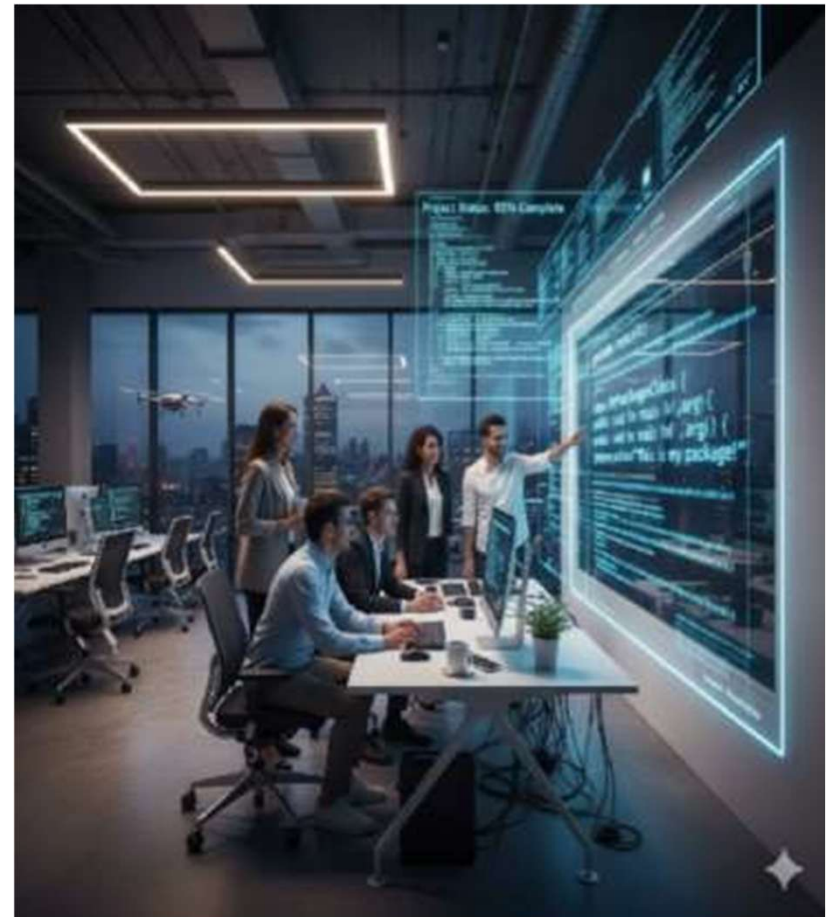
**User-defined Packages**

- numpy
- pandas
- requests
- django
- tensorflow

Modular & Reusable Code

# Example

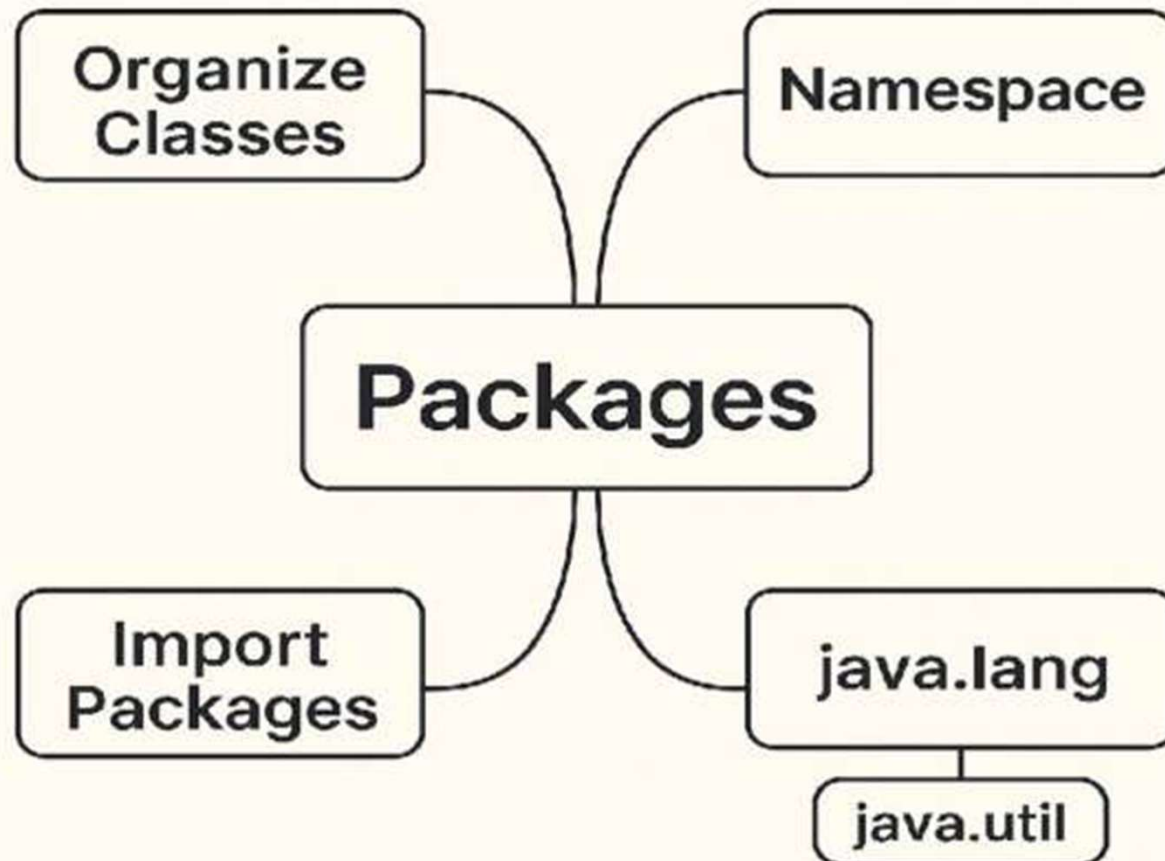
```
package mypack;  
class MyPackageClass  
{  
    public static void  
        main(String[] args)  
{  
    System.out.println("This is  
        my package!");  
}  
}
```



# Approaches



# Mind Map



# Question to solve



1. Which of the following is the correct way to define a package in Java?

- a) package mypackage;
- b) import mypackage;
- c) include mypackage;
- d) define package mypackage;

**Answer: a) package mypackage;**

2. Which of the following packages is automatically imported in every Java program?

- b) java.util
- c) java.io
- d) java.lang
- e) java.net

**Answer: c) java.lang**

# References



1. Herbert Schildt, “Java: The Complete Reference”, 11th Edition, McGraw Hill Education, New Delhi, 2019
2. Cay S. Horstmann, “Core Java Fundamentals”, Volume 1, 11th Edition, Prentice Hall, 2018