📘 What is the Scanner Class in Java?

The Scanner class in Java is used **to read input from users**. It is part of the java.util package and allows you to take input from various sources like:

- **keyboard input (System.in)**

- files

- strings

✅ Why Use Scanner?

It makes input handling easy for:

- integers (nextInt())

- floats (nextFloat())

- strings (next(), nextLine())

- booleans (nextBoolean()), etc.

📜 Simple Example: Reading an Integer and a String

```
import java.util.Scanner;

public class ScannerExample {
    public static void main(String[] args) {
        // Create Scanner object
        Scanner sc = new Scanner(System.in);

        // Read an integer
        System.out.print("Enter your age: ");
        int age = sc.nextInt();

        // Read a string (one word)
        System.out.print("Enter your name: ");
```

```java
        String name = sc.next();


        // Output

        System.out.println("Hello " + name + ", you are " + age + " years old.");
    }
}
```

🔍 Common Scanner Methods

Method	Description
nextInt()	Reads an integer
nextFloat()	Reads a float
next()	Reads a single word (no spaces)
nextLine()	Reads a full line (with spaces)
nextDouble()	Reads a double value

📝 Note:

Always close the Scanner using sc.close() when you're done to avoid resource leaks.