



# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107



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### 23CSB101

## OBJECT ORIENTED PROGRAMMING

### Scanner Class in Java

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# Scanner class



The Scanner class in Java is used to take user input from the keyboard. It is part of the **java.util** package.

- To use the Scanner class, you need to import it:

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

Scanner is a class which contains necessary methods to provide a user an access to the i/p console.



## Scanner class



- To take input, you must create an instance of the Scanner class:

**Scanner** scannername = **new Scanner(System.in);**

creating object of Scanner class to access the i/p stream.



# Scanner class

## Methods of Scanner Class:

The Scanner class provides methods to read different types of input:

Method	Data Type	Example
<code>nextInt()</code>	<code>int</code>	<code>int num = scanner.nextInt();</code>
<code>nextDouble()</code>	<code>double</code>	<code>double price = scanner.nextDouble();</code>
<code>nextFloat()</code>	<code>float</code>	<code>float avg = scanner.nextFloat();</code>
<code>nextLong()</code>	<code>long</code>	<code>long bigNum = scanner.nextLong();</code>
<code>nextBoolean()</code>	<code>boolean</code>	<code>boolean flag = scanner.nextBoolean();</code>
<code>next()</code>	<code>String</code> (single word)	<code>String name = scanner.next();</code>
<code>nextLine()</code>	<code>String</code> (full line)	<code>String sentence = scanner.nextLine();</code>



## Scanner class



```
import java.util.Scanner;
public class Animal
{
    public static void main(String args[])
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter your name: ");
        String name = scanner.nextLine();
        System.out.println("Hello, " + name);
    }
}
```



# Scanner class



## Output:

Enter your name: **John**  
Hello, **John**



## Scanner class



```
import java.util.Scanner;
public class Animal
{
public static void main(String args[])
{
int num=0,res;
Scanner in=new Scanner(System.in);
System.out.println("Enter a Number : ");
num=in.nextInt();
res=num*2;
System.out.println("The value of "+num+" * 2 = "+res);}
}
```



# Scanner class



## Output:

Enter a Number :

15

The value of  $15 * 2 = 30$





# Assignment



1. Write a Java program that takes two numbers as input and displays the product of two numbers.
2. Write a Java program to swap two variables.



# THANK YOU