This session will help learners in inderstanding,

- How to use Scanners to develop CUI based applications.

- How to use scanner to get inputs from the users.

What is a Scanner?

How good is a PS2 game without a game controller?

This session we will learn about how users can dynamically pass values to java applications in command line.

This is achieved using java scanner API.

- Java 1.5 introduced the Scanner class which can be used by developers to develop CUI based application.

- This can also be used to read data from files and Strings.

- This is present in *java.util* package.

How scanner works?

- Scanner class reads input from the source and convert into tokens using delimiters.

  ✓ **Example:** Chennai,Mumbai,Kolkatta

  ✓ **Token 1:** Chennai **Token 2:** Mumbai **Token 3:** Kolkatta

Syntax:

Scanner <variable>= new Scanner(System.in);

> **The scanner reads the input which users key in.**

Scanner API's

You will learn the implementation of these API's in the next slides

	Method	Description
String	next()	Returns the next token from the input as a string.
int	nextInt()	Scans the next token of the input as an int.
Long	nextLong()	Scans the next token of the input as a long.
Short	nextShort()	Scans the next token of the input as a short.

- Create an instance of Scanner class.

  Scanner input = new Scanner(System.in);

- Employee name retrieved as input from the console, Invoke the nextLine() method in the following way

  String empName= input.nextLine();

- Salary retrieved as input from the console, Invoke nextInt() method in the following way.

  Double salary = input.nextDouble();

7