SCANNER WITH STRINGS

zyBook 2.19, Oracle - Java Tutorial: Scanning

@ Dr. Jessica Young Schmidt and NCSU Computer Science Faculty

REVIEW: READING INTEGER FROM CONSOLE

public int nextInt()

Scans the next token of the input as an int.

- Returns: the int scanned from the input

- Throws:

  - InputMismatchException – if the next token does not match the Integer regular expression, or is out of range

  - NoSuchElementException – if input is exhausted

READING SINGLE STRING TOKEN FROM CONSOLE

public String next()

Finds and returns the next complete token from this scanner. A complete token is preceded and followed by input that matches the delimiter pattern.

- Returns: the next token

- Throws:

    - IllegalStateException – if this scanner is closed

    - NoSuchElementException – if no more tokens are available

READING MULTIPLE STRING TOKENS FROM CONSOLE

public String nextLine()

Advances this scanner past the current line and returns the input that was skipped. This method returns the rest of the current line, excluding any line separator at the end. The position is set to the beginning of the next line.

- Returns: the line that was skipped

- Throws:

  - IllegalStateException – if this scanner is closed

  - NoSuchElementException – if no line was found

```java
import java.util.Scanner;

public class UserInfo {

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);

        System.out.print("Enter department: ");
        String department = in.nextLine();

        // Single token
        System.out.print("Enter UnityID: ");
        String unityID = in.next();

        System.out.print("Enter campus box number: ");
        int box = in.nextInt();

        System.out.println(unityID + " (" + department + ") [" + box + "]");

    }

}
```

```
$ javac -d bin -cp bin src/UserInfo.java

$ java -cp bin UserInfo
Enter department: Computer Science
Enter UnityID: jdyoung2
Enter campus box number: 8206
jdyoung2 (Computer Science) [8206]
```