Introduccion a la programacion

Java Input - Using Java Scanner

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Java Scanner

• A Java Scanner is the fastest, easiest way to get input from a user in Java.
• A class providing a number of methods to read data from the screen (or file).
• The input is considered to be a set of tokens, each one delimited by whitespaces.

> Hello world, this is my first Java program

TOKEN
Java Scanner

- `nextLine()`: advances to the next line and returns the content skipped (a line of text)
- `next()`: reads the following token from the input and returns it as a String

```java
System.out.println("What is your name: ");
Scanner scanner = new Scanner(System.in);
String name = scanner.nextLine();
// User enters Juan Manuel
System.out.println("Hello "+ name);
// Program output: Hello Juan Manuel
```

```java
System.out.println("What is your name: ");
Scanner scanner = new Scanner(System.in);
String name = scanner.next();
// User enters Juan Manuel
System.out.println("Hello "+ name);
// Program output: Hello Juan
```
Java Scanner

- `nextInt()`: reads from the input the next token and returns it as an integer

```java
System.out.println("How old are you?: ");
Scanner scanner = new Scanner(System.in);
int age = scanner.nextInt();
// User enters 28
System.out.println("You are "+ age);
// Program output: You are 28
```
Java Scanner

- `nextFloat()`: reads from the input the next token and returns it as a `Float`

```java
System.out.println("How tall are you?: ");
Scanner scanner = new Scanner(System.in);
float height = scanner.nextFloat();
// User enters 1.82
System.out.println("You are " + height + " tall");
// Program output: You are 1.82 tall
```
Java Scanner

- nextBoolean(): reads from the input the next token and returns it as a Boolean

```java
System.out.println("Are you married?: ");
Scanner scanner = new Scanner(System.in);
Boolean married = scanner.nextBoolean();
// User enters true
System.out.println("Married: "+married);
// Program output: Married: true
```
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