





### Scanner Imports

import java.util.Scanner;

Try to be as specific as possible when using an import.

#### Scanner Creation

scanner keyboard =
 new Scanner(System.in);

object instantiation



### **Scanner** frequently used methods

Name	Use
nextInt()	returns the next int value
nextDouble()	returns the next double value
nextFloat()	returns the next float value
nextLong()	returns the next long value
nextByte()	returns the next byte value
nextShort()	returns the next short value
next()	returns the next one word String
nextLine()	returns the next multi word String

import java.util.Scanner;

### Reading in Integers

Scanner keyboard = new Scanner(System.in);

out.print("Enter an integer :: ");
int num = keyboard.nextInt();



### **Reading in Integers**

out.print("Enter an integer :: ");
int num = keyboard.nextInt();
out.println(num);

**INPUT 931** 

#### <u>OUTPUT</u>

Enter an integer :: 931 931



### Reading in Integers

### Reading in data

out.print("Enter an integer :: ");

Prompts are used to tell the user what you want.

## Open scannerints.java

### Reading in Doubles

Scanner keyboard = new Scanner(System.in);

out.print("Enter a double :: ");
double num = keyboard.nextDouble();



#### Reading in Doubles

out.print("Enter a double :: ");
double num = keyboard.nextDouble();
out.println(num);

**INPUT** 34.33

#### **OUTPUT**

Enter a double :: 34.33 34.33



### Reading in Doubles

## Open scannerreals.java

#### Reading in Strings

Scanner keyboard = new Scanner(System.in);

```
out.print("Enter a string :: ");
String word = keyboard.next();
```

#### Reading in Strings

out.print("Enter a string :: ");
String word = keyboard.next();
out.println(word);

#### **INPUT**

I love java.

#### **OUTPUT**

Enter a string :: I love java.

I

### Reading in Lines

Scanner keyboard = new Scanner(System.in);

out.print("Enter a sentence :: ");
String sentence = keyboard.nextLine();



#### Reading in Lines

out.print("Enter a line :: ");
String line = keyboard.nextLine();
out.println(line);

#### **INPUT**

I love java.

#### **OUTPUT**

Enter a line :: I love java.

I love java.

## Open scannerstrings.java

### nextLine() issues

```
out.print("Enter an integer :: ");
int num = keyboard.nextInt();
out.print("Enter a sentence :: ");
String sentence = keyboard.nextLine();
out.println(num + " "+sentence);
```

#### **OUTPUT**

Enter an integer :: 34

Enter a sentence :: 34

<u>INPUT</u>

34

picks up \n

nextLine() picks up whitespace.

### nextline() issues

#### **OUTPUT**

Enter an integer :: 34

Enter a sentence :: picks up \n

34 picks up \n

**INPUT** 

34

picks up \n

nextLine() picks up whitespace.

## Open nextlineissues.java

#### Multiple Inputs

**INPUT 1 2 3 4 5** 

Scanner keyboard = new Scanner(System.in);

out.println(keyboard.nextInt());
out.println(keyboard.nextInt());
out.println(keyboard.nextInt());

#### 1 2

## Open multiread.java

### Old School Input

```
BufferedReader keyboard =
  new BufferedReader(
      new InputStreamReader( System.in ) );
System.out.print("Enter a word :: ");
String s = keyboard.readLine();
System.out.println(s + '\n' );
```

### Old School Input

readLine() reads in all data as text / string data. The text you read in must be converted over to the appropriate type before it can be stored.

```
System.out.print("Enter an integer :: ");
one = Integer.parseInt(keyboard.readLine());
```

```
System.out.print("Enter a double :: ");
two = Double.parseDouble(keyboard.readLine());
```

## Unen oldschoolone.java oldschooltwo.iava









#### //GUI INPUT BOX

input= JOptionPane.showInputDialog("Enter an integer :: ");
one = Integer.parseInt(input);

#### //GUI OUTPUT BOX

JOptionPane.showMessageDialog(null, "Integer value :: " + one);



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