A+ Computer Science

INPUT

Imports

Scanner Import

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

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

Scanner Creation

reference variable

```
Scanner keyboard =
                new Scanner(System.in);
```

object instantiation

Scanner Methods

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;
```

Integer Input

Reading Integer Values

```
Scanner keyboard =
                new Scanner(System.in);

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

Reading Integer Values

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

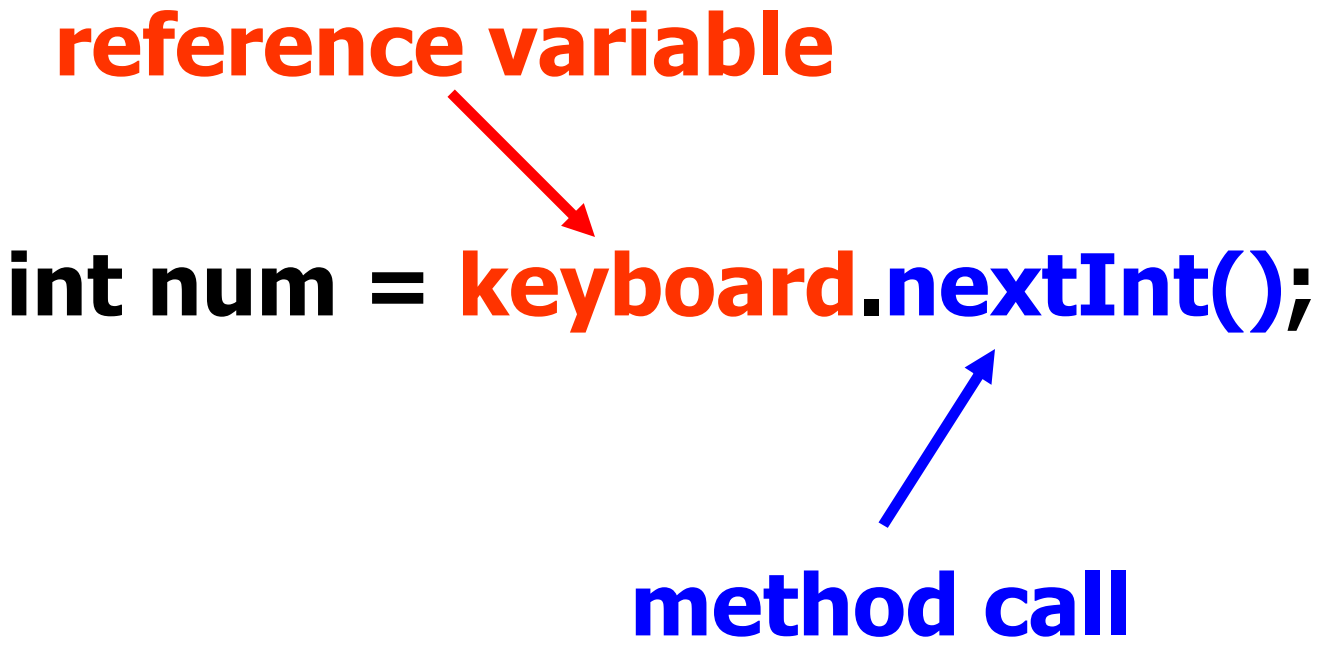
INPUT

```
2001
```

OUTPUT

```
Enter an integer :: 2001
2001
```

Reading Integer Values



Reading Integer Values

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

Prompts are used to tell the user what you want.

int_input.java

Double Input

Reading Decimal Values

```
Scanner keyboard =
                new Scanner(System.in);

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

Reading Decimal Values

reference variable

```
double num = keyboard.nextDouble();
```

method call

double_input.java

String Input

Reading String Values

```
Scanner keyboard =
                new Scanner(System.in);

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

Reading String Values

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

INPUT

I love A+ compsci.

OUTPUT

```
Enter a string :: I love A+ compsci.
I
```

Reading String Values

```
Scanner keyboard =
                new Scanner(System.in);

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

Reading String Values

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

INPUT

I love A+ compsci.

OUTPUT

```
Enter a line :: I love A+ compsci.
I love A+ compsci.
```

string_input.java

Input Issues

Input 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
```

INPUT

```
34
picks up \n
```

nextLine() picks up whitespace.

Input Issues

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

OUTPUT

```
Enter an integer :: 34
Enter a sentence :: picks up \n
34 picks up \n
```

INPUT

```
34
picks up \n
```

nextLine() picks up whitespace.

input_issues.java

Reading Multiple Values

INPUT

```
7 5 3 1 8
```

```
Scanner keyboard =
            new Scanner(System.in);

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

OUTPUT

```
7
5
3
```

multi_input.java

Work on Programs!

Crank

Some Code!

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INPUT