

A+ COMPUTER SCIENCE INPUT

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Imports

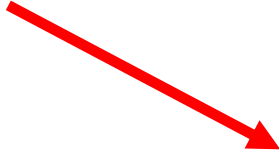
Scanner Import

```
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

reference variable



```
int num = keyboard.nextInt();
```



method call

Reading Integer Values

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

Prompts are used to tell the user what you want.

int_input.java

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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

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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

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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

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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

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PROGRAMS!**

**CRANK
SOME CODE!**

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