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





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

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







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

INPUT 2001

OUTPUT

Enter an integer :: 2001 2001





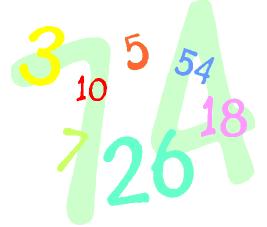
reference variable int num = keyboard.nextInt(); method call non-void / return





System.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



double num = keyboard.nextDouble();



method call non-void / return



double_input.java



String Input





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

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







String word = keyboard.next();



method call non-void / return





```
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





Scanner keyboard = new Scanner(System.in);

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





```
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

OUTPUT

Enter an integer :: 34

Enter a sentence :: picks up \n

34 picks up \n

<u>INPUT</u>

34

picks up \n

nextLine() picks up whitespace.



input_issues.java



Multi Value Input





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());

<u>OUTPUT</u>

7

5

3





Reading Multiple Values

INPUT 7 5 3 1 8

Scanner keyboard = new Scanner(System.in);

 OUTPUT 12





Reading Multiple Values

INPUT 3 9 -4 1 8

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

```
int sum = keyboard.nextInt();
sum = sum + keyboard.nextInt();
sum = sum + keyboard.nextInt();
System.out.println( sum );
```

OUTPUT 8



multi_input.java



Work on Programs!

Crank
Some Code!



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