Input and Output

When we say Input, it means to feed some data into a program. An input can be given in the form of a file or from the command line.

When we say Output, it means to display some data on screen, printer, or in any file.

Python provides numerous built-in functions that are readily available to us at the Python prompt. Some of the functions like input() and print() are widely used for standard input and output operations respectively.

Output

The simplest way to produce output is using the *print* statement where you can pass zero or more expressions separated by commas. This function converts the expressions you pass into a string and writes the result to standard output.

Example	Output
print "Hello Python"	Hello Python
print 'Hello Python'	Hello Python

print("Hello Python")	Hello Python
print('Hello Python')	Hello Python
a=10	value of a is 10
print "value of a is", a	('value of a is', 10)
print("value of a is",a)	

Output formatting

Sometimes we would like to format our output to make it look attractive. This can be done by using the str.format() method. This method is visible to any string object.

Example	Output
a = 10; b=20	The value of a and b is 10, 20
print('The value of a and b is	
$\{0\},\{1\}'.format(a,b))$	

Here the curly braces {} are used as placeholders. We can specify the order in which it is printed by using numbers (tuple index).

We can even format strings like in C programming language. We use the % operator to accomplish this.

Example	Output
a = 10; b=20	The value of a and b is 10,20
print('The value of a and b is	
%d,%d'%(a,b))	

Input

To allow flexibility we might want to take the input from the user. In Python, we have the input() function to allow this.

Syntax

input([message])

Where message is the string we wish to display on the screen. It is optional.

Example Output

print 'Value of a is',a	Value of a is 10
Example	Output
a=input('Enter value of a')	Enter value of a 10

Enter value of a 10

Value of a is 10

raw_input

a=input('Enter value of a')

print 'Value of a is %d' %a

raw_input() function is used to take input from the user. It takes the input from the Standard input in the form of a string and reads the data from a line at once.

Example	Output
a=raw_input("Enter Value of a")	Enter Value of a 10
print "Value of a is",a;;	Value of a is 10

Example	Output
a=raw_input("Enter Text")	Enter Text Hello Python
print "Entered Text is",a	Entered Text is Hello Python