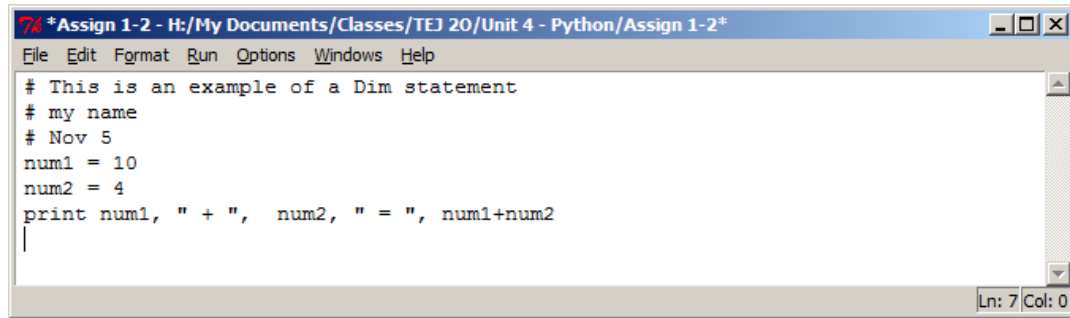


Python - Input

Dim (Dimension) statements are used in programs to create comments for programmers. These statements are not executable – in other words they are ignored when the program is run.



```
*Assign 1-2 - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Assign 1-2*
File Edit Format Run Options Windows Help
# This is an example of a Dim statement
# my name
# Nov 5
num1 = 10
num2 = 4
print num1, " + ", num2, " = ", num1+num2
|
Ln: 7 Col: 0
```

- this denotes a DIM statement

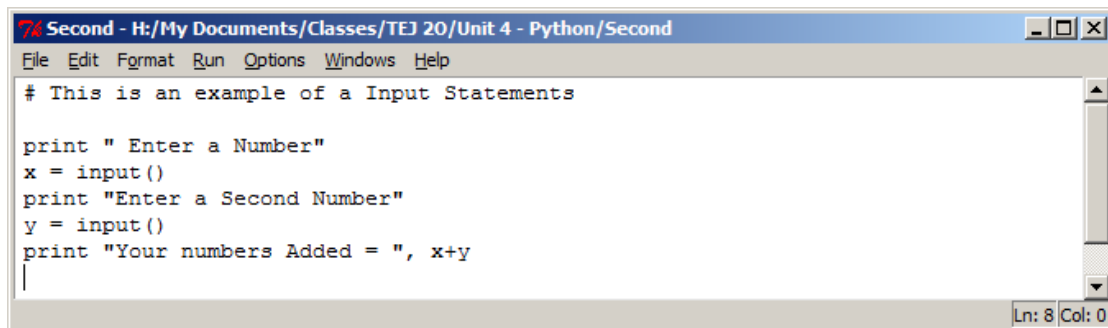
Getting Input from the Keyboard

There are 2 commands used to prompt the user of the program to enter Input from the keyboard :

input()	→	used for numbers
raw_input()	→	used for text

A print statement (telling the user what to input) should always be in front of an input() statement

Enter the following program and run it :



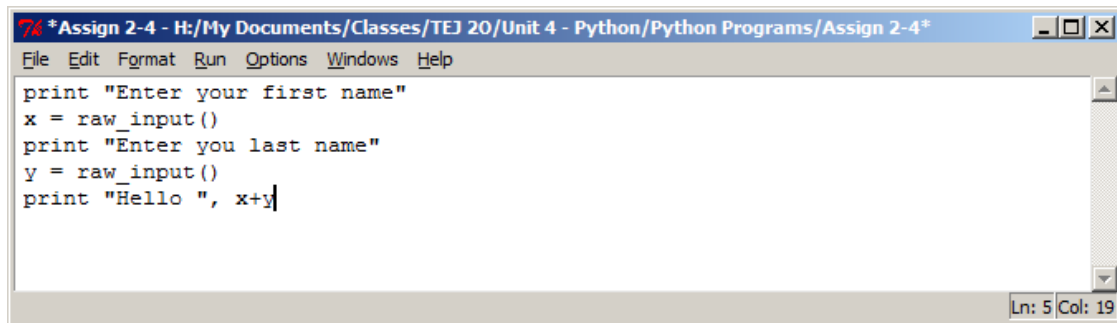
```
Second - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Second
File Edit Format Run Options Windows Help
# This is an example of a Input Statements

print " Enter a Number"
x = input()
print "Enter a Second Number"
y = input()
print "Your numbers Added = ", x+y
|
Ln: 8 Col: 0
```

Without input statements, we have to go into the program to change the values.

Adding Text :

Enter the following program and run it :



```
*Assign 2-4 - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Python Programs/Assign 2-4*
File Edit Format Run Options Windows Help
print "Enter your first name"
x = raw_input()
print "Enter you last name"
y = raw_input()
print "Hello ", x+y
Ln: 5 Col: 19
```

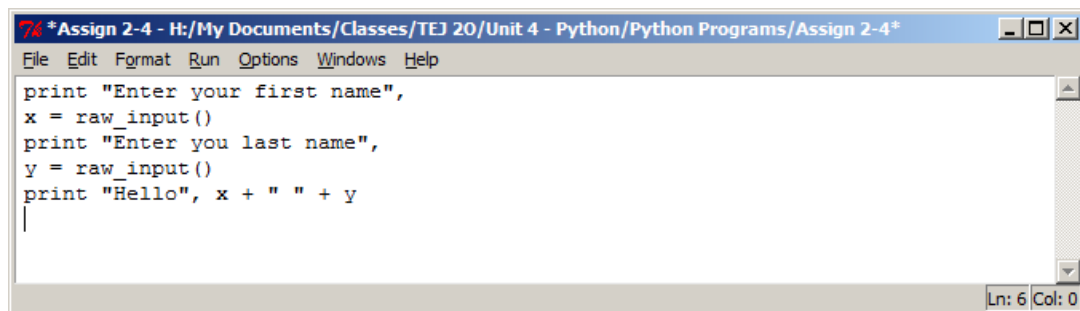
* we are using raw-input() instead of input(), because are answers will be text

* Text is added by Python, by sticking them together

* To get a space in the output (between the First and Last names), change the last line of the program :

`print "Hello", x + " " + y`

* Try putting a comma after the “ “ in the print statement. See how it changes where the input is :



```
*Assign 2-4 - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Python Programs/Assign 2-4*
File Edit Format Run Options Windows Help
print "Enter your first name",
x = raw_input()
print "Enter you last name",
y = raw_input()
print "Hello", x + " " + y
|
Ln: 6 Col: 0
```

Assignment #2

Use # (DIM) statements in all your programs! The first 3 lines should be # statements :

```
# Assign Number
# Your Name
# Date
```

1. Rewrite Assign 1-1 (Pizza program), so that the **Cost** (Cost per Slice) and **Num** (Number of Slices) are inputted from the keyboard. Save as “Assign 2-1”

2. Rewrite Assign 1-2, so that the 2 numbers used in the program are inputted from the keyboard. Save as "Assign 2-2".
3. Write a program that prompts the user for their Title, First name, Surname, Telephone area code, and Phone number. Input each piece of information on a separate line.

The Output should look like :

Save as "Assign 2-3"

```
Phone Number Information
-----
Enter your title: Ms
Enter your first name: Mary
Enter your surname: Harrison
Enter your area code: 419
Enter your phone number: 343-8789

Ms. Harrison Mary ..... ( 419 ) 343-8789
```

4. The formula to calculate the area **Area = πr^2** or **Area = 3.14*r**2**. Create a program that prompts the user to input the radius of a circle and displays the Area. Save as "Assign 2-4".
The Output should look like :

```
Area of a Circle
-----

Enter the radius of a circle (in cm) : 10

The Area of the circle is 314 cm2
```

5. The height of an object at any given time from a starting height of 100 metres is given by the equation $h = 100 - 4.9t^2$ where t is the time in seconds. Create a program that prompts the user for both the starting height in metres and the time in seconds and then displays the height of the object at that time. * Save as "Assign 2-5". Your program could look as follows:

```
Object Height
-----

Enter the starting height in metres: 100
Enter the time in seconds: 2

The height of the object is 80.4 meters
```