## Part 4 Input / Output, Conditional statements

Notes, examples, and the assignment at : <a href="https://code.actor">https://code.actor</a>

## **Output**

Most Python environments allow text output to the user's console with the **print()** function.



## Input

Most Python environments allow text input from the user's console with the **input()** function. The input() function takes one argument: the question to the user. It returns the value of whatever the user input (and pressed enter). The returned value can be used directly in logic operations or stored in a variable for later use.

## Conditional statements, flow control, if elif else

What if you want some of your code to run, or NOT run based on some specific conditions? How about a warning that the user is drawing too large a shape? How about a program with a menu of options. The ability to control the "flow of execution" is very important. Notice the indentation!

```
age = int(input("How old are you? "))
    less than
                          print("You aren't 5 yet! Sorry, you can't play.") How old are you? 7
    greater than
                                                                      Favorite animal? dog
== equal to
                                                                      Dogs Rule!
                     7 fav_animal = input("Favorite animal? ")
!= not equal to
                                                                      What grade are you in? 7
>= GT or equal to 9- if (fav_animal == "dog"):
                          print("Dogs Rule!")
<= LT or equal to 10 pr
                                                                      Oh, you are almost done here
                           print("Ok that animal is cool.")
                    12
                                                                      Ok thanks for answering!
You can have 14 grade = int(input("What grade are you in?"))
multiple
                    16- if (grade == 7):
conditions
                    17 print("Oh, you are almost done here!")
18-elif (grade == 6):
using
                    19
                          print("One more year to go here!")
                    20 - elif (grade == 5 or grade == 4):
and or
                          print("You have a while left to go my friend!")
or
                          print("That input doesn't make sense.")
                        print("Ok thanks for answering!")
```