In the context of programming, a *function* is a named sequence of statements that performs computations operations. You can "call" the function by name. We have already seen few example of a *function call*:

```
print("hello")
```

The name of the function is print. Whatever you put inside parentheses is called the *argument* of the function. (The AP CSP test calls this *parameter*.) The argument is a *value*, *variable*, *or an expression* that we are *passing* into the function as input to the function. The function takes argument(s) and performs the task that it is designed to perform. The function print's job is to simply display the argument on the screen.

```
print("hola") #pass a value "hola" to the print function

x = 10
print(x) #pass a variable x which has a value of 10 to the print function

x=10
y=2
print(x*2) #pass an expression x*2, that is evaluated to 20, to the print function
```

Some functions are designed to *returns* a result. In other words, a function "takes" an argument and "returns" a result. The result is called the *return value*.

You've used these types of functions before:

```
name = input("Enter your name:") #Here, input() RETURNS keyboard
input
#you're assigning that to the variable name

x = 10
print( "x is " + str(x) ) #Here, str() RETURNS a string value of 10
-> "10"
```

```
num = input("Enter a number:")
total = int(num) * 100. #Here, int() RETURNS an integer value of
input in string data type
```

There are many other functions that comes with Python automatically but we'll just focus on following functions in AP CSP:

```
print() #display
input() #get input
int() #casting functions
str()
float()
random.randint() #generate a random number (import random is required)
len() #returns a length of a list (how many items are there?)
```