

Python Cheat Sheet

General

Modules are added with:

```
import moduleName
```

Functions

```
def functionName (params) # creates a function
```

Functions have a built in attributes accessed like:

```
__doc__ # will return the description
```

```
__name__ #will return the name of the function eg: __main__
```

Strings

```
""" shows that strings can go across  
many lines """
```

Dictionaries

```
dictionaryName = {key1:value1,key2:value2} # defines a dictionary
```

```
dictionaryName # prints the whole dictionary
```

```
dictionaryName[key] # prints a dictionary value
```

```
del dictionaryName[key] # deletes the key value pair
```

```
dictionaryName.clear # clears the dictionary
```

Lists

```
listName = {value1, value2,...} # defines a list  
listName[element] #access an element in the list  
listName[-1] # access elements from the end of the list and counts back  
listName[x:y] # gets a subset from x till y excluding y
```

List Functions:

1. `.append(item)` # adds the element to the end of the list
2. `.insert(element,item)` # inserts the element into the list at the position
3. `.extend(listName)` # joins the new list to the old one
4. `.append(objectName)` # adds the object to the end of the list
5. `len(listName)` # returns the length of the list
6. `listName.index(item)` # returns the index number of the item
7. `value in listName` # returns true or false
8. `.remove(item)` # removes the first occurrence of item
9. `.pop()` # pops the last element of the list and returns it

List Operators:

1. `listName + otherList` # adds the two lists together to form one list
2. `listName += [newItem]` # adds the new item to the list
3. `listName = [value1, value2] + 3` # `[value1, value2,value1, value2,value1, value2]`