Cheatography

Python Fundamental Week 1 Cheat Sheet

by hangvtk7777 via cheatography.com/179808/cs/45697/

Python Basic & Data Structure

VARIABLE ASSIGNMENT & DATA TYPE DETECTION

create a variable

```
full = 1
```

data type detection

```
print (type( var iab le_ name))
```

PYTHON LIST

create a list

```
my_list = ["my ", " lis t", 0, 1 ]
```

getting elements in a list

```
x = ["a", " b", " c", " d"]
```

```
x[1]
```

```
x[-3] # same result!
```

slicing & dicing

```
my_lis t[s tar t:end]
```

manipulating a list (update)

```
fam = ["li z", 1.73, " emm a",2]
```

```
fam[3] = 1.86
```

manipulating a list (remove)

```
del(fa m[2])  # Remove " emm a"
```

manipulating a list (add element)

```
x = ["a", " b", " c", " d"]
```

```
y = x + ["e", " f"]
```

PYTHON SET

create a set

```
myset = {"ap ple ", " ban ana ", " che rry "}
```

PYTHON TUPLE

create a tuple

```
mytuple = ("ap ple ", " ban ana ", " che rry ")
```

getting elements in a tuple

```
mytuple[1]
```

slicing & dicing in a tuple

```
mytupl e[s tar t:end]
```

Python Loop

Python if else condition

Phân biệt Python if elif và (multiple) if condition

Data Structure (Dictionary)

PYTHON DICTIONARY

create dictionary

```
d1 = {1: 'Geeks', 2: 'For', 3: 'Geeks'} # create dict
```

```
k = ["Fr uit s", " Veg eta ble s", " Dri nks "]
```

```
val = [["A ppl e", " Ban ana "], ["Ca rro t", " Spi n
" Jui ce"]]
```

```
d = dict(z ip(k, val))  print(d) # create a dictiona
```

get list of values, keys

```
dictio nar y_n ame.va lues()
```

```
dictio nar y_n ame.keys()
```

access specific value of key

```
dictio nar y_n ame ['s pec ifi c_key']
```

dictionary manipulation (add key & value)

```
 dictio nar y_n ame ['n ew_ key'] = 'new_v alue'
```

dictionary update / remove key

```
 dictio nar y_n ame ['k ey_ to_ upd ate'] = 'value _
```

```
del dictio nar y_n ame ['k ey_ to_ rem ove']
```

Data Structure (String)

For: lặp đúng bằng số lần của tập hợp, danh sách

```
fruits = ["ap ple ", " ban ana ", " che rry " ,"st - raw ber ry"]
for i in fruits:
print(i)
```

While: cho đến khi condition = True

```
i = 0
while i < 6:
    i= i + 2
print(i)
```

PYTHON STRING

create a string

```
 s = " GfG "
```

access character in string

```
 s[1]
```

string slicing

```
s[start : end]
```

common string methods (len of string)

```
s = " Gee ksf orG eek s"
print( len(s))
# output: 13
```

common string methods (upper, lower)

```
 s = " Hello World"
 print( s.u pper())    # output: HELLO WORLD
 print( s.l ower())    # output: hello world
```

common string methods (strip)

```
s = "   Gfg   "
print( s.s trip()) # remove space from s
# output: Gfg
```

another string methods

reference to this link: https://www.w3schools.com/python/python_re-f_string.asp

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