

# ritttt Cheat Sheet

by rit via cheatography.com/25887/cs/7003/

# print() Show information that you want on the screen input() Gain information from user len() The length of the string int() Change number to be number integer float() Change number to be decimal number str() A list of number, letter and symbols # Comment

Vocab	
Variable	Hold a value and can be change
String	A list of character such as number, letter and symbols
Integer number	whole number/ counting number
Float point	The number in decimal
syntax	Grammar/Structure of lauguage
Modulo	Find the remainder
Boolean	True/False

### Example

```
Print (2) - integer
Print (2.5) - floating point
Print ("Hello") - string
Print (mystr) - variable
Print (mystr,"Hi",2,1.0) -- commas
```

# Example (cont)

```
mystr = "Hi"
mystr ← name
"Hi" ← value can change
print (int(1.5)) → 1
print (int("2")) → 2
print (float(1)) → 1.0 anything to
a float
Modulo/Remainder %
print (4%2) → 0
print (30%7) → 2
```

### Sort per line

```
mystr = "Hello"
letter_num = 0
while letter_num < len(mystr):
print (mystr[letter_num])
letter_num = letter_num + 1
H
e
1</pre>
```

### Print name

name = "tim GIRARD"

print (name.upper())  $\rightarrow$  TIM GIRARD print (name.lower())  $\rightarrow$  tim girard print (name.capitalize())  $\rightarrow$  Tim girard print (name.title())  $\rightarrow$  Tim Girard

# Math == equal to != no equal to < less than > more than <= less than or equal >= more than or equal to % modulo, find the remainder

Addition			
string + string	Combine together		
string + number	crash		
number + number	addition		

Multiplication	
string * number	combine that string multiple times
string * string	crash
number *	multiply
string ** string	crash
number **	exponents
string ** number	crash

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### **Naming Convertion**

Rule for giving name

- letter
- numbers
- underscore \_

Valid name

- \_myStr
- my3
- Hello there

Invalid name

- 3my="hi" -- cannot start with number
- first name="hi"
- first-name

### Area of circle

```
11 11 11
```

Python Intro Assignment #2

name

student number

11 11 11

#Ask the user for a radius of a circle

user\_radius = input("What is a

radius of a circle?")

#Convert the given radius to a

floating point

radius = float(user\_radius)

#Make a variable called pi

pi = float(3.1415)

#Calculate the area of the circle

using exponents

area = pi(radius\*2)

#Display the area of the circle to

the user

print ("The area of the circle is",

area)

### Reverse word

while True:

word = input("Please enter a word")

index = 0

reverse = ' '

while int(index) < len(word):

reverse = word[index] + (reverse)

index = int(index) + 1

print ("Reverse: ", reverse)

### Convert to binary

```
user_number = ' '
```

while user\_number != ' 0 ' :

user\_number = input ("Enter a

number to convert to binary")

number = int(user\_number)

binary\_string = ' '

while (number > 0):

remainder = number%2

binary\_string = str(remainder)+

binary\_string

number = number//2

print ("Binary string is",

binary\_string)

## countdown Machine

```
user_number = input("What number
```

do you want to count down? ")

number = int(user\_number)

countdown\_string = ' '

while number > 0:

countdown\_number =

 $\verb|countdown_string + str(number) + "|\\$ 

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number = number - 1

#print(number)

print (countdown\_string)

### Sort fruit list

fruits = [] #an empty list

for number in range(5):

user\_fruit = input("Please enter a

fruit")

fruits.append(user\_fruit)

print ("Size of fruit list is",

len(fruits))

fruits.sort()

for fruit in fruits:

print ("Fruit: ", fruit)

### random.choice

import random

intlist = [9,8,7,6,5,4]

random\_int =

random.choice(intlist)

print (intlist, random\_int)

fplist = [0.2, 0.3, 0.3]

random\_fp = random.choice(fplist)

print (fplist, random\_fp)

strlist = ["ABC", "BCA", "CAB"]

random\_str =

random.choice(strlist)

print (strlist, random\_str)

mylist =[1,3,6,12,"ABC", "DEF",

"HIJ"]

random\_item =random.choice(mylist)

print (mylist, random\_item)

myvar1 = 1

myvar2 = 2

myvay3 = 3

varlist =[myvar1, myvar2, myvar3]

random\_var =

random.choice(varlist)

print (varlist, random\_var)

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