# Cheatography

# Python Cheat sheet - Pat Cheat Sheet by ZawBlaDE via cheatography.com/25797/cs/6923/

# Function

print()	displays information that you want to show on the screen
int()	Change number to be number integer
input()	Gain information from user
str()	A list of number, letter and symbols
len()	The length of the string
#	Comment, no effect

# Multiplication and Exponents

string * string	Crash!
string * number	combine that string
number * number	multiply (Math)
string ** string	Crash!
number ** number	Exponent(Math)
string ** number	Crash!

### Example

print (2.5) - Float print (2) - Integer print ("Hello") - string print (mystr) - variable print (mystr,"Hi,2,1,0) - commas

mystr = "noobs" mystr - name "noobs" - can be change

print (int(1.5)) - 1 print (int("2")) - 2

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# **Countdown Machine**

```
user_number = input("What number
do you want to countdown?")
number = int(user_number)
countdown_String = ' '
while number > 0:
    countdown_number =
countdown_string + str(number) +
""
    number = number + 1
#print number
print (countdown_string)
```

#### Input loop

```
while True:
    user_input = int(input("what is
your number:"))
    integer = user_input*10
    print (integer)
```

# recieves input loop then convert to integer and \* 10

## **Decision Making/Conditional statement**

```
if 3 < 2: #if statement must
compare 2 booleans
    print ('3 is less than 2')
elif 4 < 2: #can have 0 or more
elif statements.
    print ('4 is less than 2')
elif 5 < 2:
    print ('5 is less than 2')
else: #can have 0 or 1 else
statement at the end
    print ('none of above are
true')
```

Vocabulary		
variable	something that can be change	
string	a list of characters such as number,letter and symbols	
Integer number	Whole number/counting number	
Float number	The number in decimal	
Syntax	Grammar/Structure of language	
Modulo	Find the remainder	
Boolean	True/False	

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Addition	
string + string	combine number
string +number	CRASH!
number + number	Addition (Math)

# Naming Convention

Rule for giving name

- letter
- numbersunderscore \_

Valid name

- Allahu\_akbar
- \_gg3
- \_print

Invalid Name

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

#### Math Operation

```
def calc(num1, num2, operation):
    if operation == "sum":
        return sum(num1, num2)
    elif operation == "product":
        return product(num1, num2)
    elif operation == "diff":
        return diff(num1, num2)
    elif operation == "div":
        return div(num1, num2)
```

def sum(a, b):
 return (a+b)
def product(a, b):

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Math Operation (cont)		
return (a*b)		
<pre>def diff(a, b):</pre>		
return (a-b)		
def div(a, b):		
if b!=0:		
return (a//b)		
else:		
print ("error")		
<pre>print (calc(10, 0, "div"))</pre>		
<pre>print(calc(1,2,"sum"))</pre>		
<pre>print(calc(4,2,"diff"))</pre>		
<pre>print(calc(9,3,"div"))</pre>		
<pre>print(calc(2,12,"product"))</pre>		

# for loop each item

forlist = ['hi', 'hello',
'goodbye']
for gg in forlist:
 print(gg)

Mat	h	
==	equal to	
!=	no equal to	
<	less than	
>	more than	
<=	less than or equal to	
>=	more than or equal to	
%	Modulo, Give remainder when dividing	
and		
or		
not		
*	multiply	
/	divide with answer as a float $5/2 = 2.5$	
//	divide with answer as an interger $5//2 = 2$	
**	exponent 2**3 = 8	
True or anything is always True		

False and anything is always False

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# Convert to binary

user_number = ''		
while user_number != "0" :		
user_number = input ("Enter a		
number to convert to binary")		
<pre>number = int(user_number)</pre>		
<pre>binary_string = '"'"</pre>		
while (number > 0)		
remainder = number%2		
<pre>binary_String = str(remainder)</pre>		
+ binary_String		
number + number//2		
print ("Binary string is",		
binary_string)		

#### Reverse

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)

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# Making list & random item

```
import random
intlist = [1, 2, 3, 4, 5]
random_int =
random.choice(intlist)
print(intlist, random_int)
fplist = [1.1, 1.2, 1.3, 1.4]
random_fp = random.choice(fplist)
print (fplist, random_fp)
strlist = ["Allo", "Stego",
"Carno", "T-rex"]
random_str =
random.choice(strlist)
print(strlist, random_str)
mylist = ["Yasashii", 1.3, 2]
random_item =
random.choice(mylist)
print(mylist, random_item)
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist = [myvar1, myvar2, myvar3]
random_var =
random.choice(varlist)
print(varlist, random_var)
```

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### While Loop each item

```
wlist = [2, 4, 5, 6, 7, 8]
gg = 0
while gg < len(wlist):
    print (wlist[gg])
    gg = gg + 1</pre>
```

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