

Python Cheat Sheet Cheat Sheet

by jinnymuids via cheatography.com/25737/cs/6849/

Addition string + string combine together string + number crash number + number math - addition

Functions	
print ()	displays information on the screen
input ()	receives information from the user
int ()	converts a value to an integer
str ()	string ("word") can be everything
float ()	change number to be decimal number
#	comment(one line)
"""	comment(many lines)
import random + random.choice()	pick random item in the list

Math	
+	plus
-	minus
*	multiple
/	divide
%	remainder (4%2)-> 0
**	exponent 2**3 -> 2^3
==	equal to
!=	not equal to
<	less than
>	more than
<=	less than or equal to
>=	more than or equal to

```
code2
shoppinglist = ('tshirt', 'pants',
'socks')
for myvariable in shoppinglist:
    print (myvariable)
print (shoppinglist(1))
for number in range(5):
    print (number)
```

Vocabulary		
Variable	holds a value and can be changed	
String	a list of characteristics such as numbers, letter, symbols	
Syntax	Grammar	
Modulo	Remainder %	
Integer	Real number	
Floating Point	Decimals	
Boolean	True/False	
== equal	!= not equal	
Syntax	make impossible to the parse	

```
Name
firstname = input (" What is your
first name? ")
lastname = input (" What is your
last name? ")
fullname = ( firstname + " " +
lastname )
print (fullname)
letternumber = int(input( " What
is letter number? " ))
if letternumber > len(fullname):
   print ( " invalid letter
number, try again! " )
else:
   letter =
(fullname[letternumber])
```

numberletter = int(input(" How

many times to print letter? "))

```
Name (cont)

if numberletter > 100:
    print (" Too many letters

to print! " )
    else:
        print ( letter *
numberletter )
```

```
Code1
# Create a program that recieve a
number from the user
# from that number on the same line
#recieve the number from the user
as a string
user_number = input
#convert the user number to an
integer
number = int(user_number)
#setup the countdown string
countdown_string = ""
while number > ():#the number is
greater than 0)
   remainder =
    print (number)
    #binary_string =
#output should look like this
# if the user enters 5:
# 5 4 3 2 1
print (countdown_string)
```

Multiplication and Exponents		
string * number	combine that string	
string * string	crash	
number * number	math - multiply	
string ** string	crash	
number ** number	math-exponent	
string ** number	crash	



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print (letter)

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Code

mystring = "hello"

print (mystring)

firstname = input ("What is your firstname?")

lastname = input ("What is your lastname"?)

fullname = firstname + " " + lastname

letternumber = int(input("What is letter number?
"))

if lettername > len(fullname):

print ("invalid letter number, try again! ")

else:

letter = (fullname(letternumber))

print (letter)

print(fullname)

numberletter = int(input ("How many times to print letter "))

Area of Circle

```
while 2==2:
   #Ask the user for a radius of a
circle
   user_radius = input("What is
the radius? ")
   #Convert the given radius to a
floating point
   radius = float(user_radius)
   #make a variable called pi
   pi = 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)
```

Binary

```
user_number = input("Enter a number
to convert to binary:")
number = int(user_number)
binary_string = ''
while (number>0):
    remainder = number % 2
```

Binary (cont)

```
binary_string =
str(remainder) +
str(binary_string)
    number = number // 2
print ("Binary string is '',
binary_string)
```



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