Cheatography

Python Cheat Sheet Cheat Sheet

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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

Math (cont)

>	more than
<=	less than or equal to
>=	more than or equal to

Code2

```
shoppinglist = ('tshirt',
'pants', 'socks')
 for myvariable in shoppi -
nglist:
          print (myvar iable)
print (shopp ing lis t(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 Error	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)
letter number = int(input( "
What is letter number? " ))
if letter number > len(fu lln -
ame):
        print ( " invalid letter
number, try again! " )
else:
        letter = (fulln ame -
[le tte rnu mber])
        print (letter)
        num ber letter =
int(in put (" How many times to
print letter? "))
       if number letter > 100:
                print (" Too
many letters to print! " )
                else:
                        print (
letter * number letter )
```

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_n umber = input
#convert the user number to an
integer
number = int(us er_ number)
#setup the countdown string
countd own _string = " "
while number > ():#the number is
greater than 0)
        rem ainder =
        print (number)
```

Code1 (cont)

```
>     #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

Code

```
mystring = "hello"
print (mystring)
firstname = input ("What is your firstn-
ame?")
lastname = input ("What is your lastname"?)
fullname = firstname + " " + lastname
print(fullname)
letternumber = int(input("What is letter
number? " ) )
if lettername > len(fullname):
print ("invalid letter number, try again! " )
else:
letter = (fullname(letternumber) )
print (letter)
numberletter = int(input ( "How many times
to print letter " ) )
```

Area of Circle

```
while 2==2:
       #Ask the user for a
radius of a circle
        use r_r adius =
input( "What is the radius? ")
        #Co nvert the given
radius to a floating point
        radius = float( use -
r_r adius)
        #make a variable called
pi
       pi = 3.1415
        #Ca lculate the area of
the circle using exponents
       area = pradius * 2
        #di splay 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(us er_ number)
binary _string = ''
while (numbe r>0):
              rem ainder =
number % 2
              bin ary _string =
str(re mai nder) + str(bi nar -
y_s tring)
              number = number //
2
print ("Binary string is '',
binary _st ring)
```