Cheatography

phython note Cheat Sheet by ppinkyy via cheatography.com/25758/cs/6874/

funtion

print	Show information on the screen
int	to tell that what you write is a number
float	change number to be decimal number
str	list of number, letter and symbol

Addition str+str the result combine together str+ int or float crash int/float + int/float math - addition

Multiplication and Exponents

string*string	crash
string*number	combine string together
number*number	math-multiply
number ** number	math-exponent
string ** string	crash
string**number	crash

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

numb = int(input('enter the number to convert to binary'))
bistring = "
while numb>0 :
rem = numb%2
bistring = str(rem)+bistring
numb = numb//2
print ('Binary Number : ', bistring)



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Naming Conventio

Naming Convention
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
- first+name
Area of Circle
IIIII
Python Intro Assignment #2
name
student number
100
#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

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)

example

Print (2) – integer Print (2.5) – floating point Print ("Hello") – string Print (mystr) – variable

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example (cont)

Print (mystr,"Hi",2,1.0) -- commas mystr = "Hi" mystr \leftarrow name "Hi" \leftarrow value can change print (int(1.5)) \rightarrow 1 print (int("2")) \rightarrow 2 print (float(1)) \rightarrow 1.0 anything to a float Modulo/Remainder % print (4%2) \rightarrow 0 print (30%7) \rightarrow 2

fuction

```
def myprint(text) :
    print ('xxx'+str(text)+'xxx')
myprint (1)
```

xxx 1 xxx

Function (return number) Ex

```
def doubleIt (number):
    return number *2
print (doubleIt(2))
print (doubleIt('hello'))
myvar = doubleIt(doubleIt(3))
print (myvar)
```

4

hellohello

12

symbol

==	equal
!=	not equal
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to

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Vocabulary	
variable	hold a value and can be change
string	a list of character such as number, letter and symbols
integer	a number without decimal
float	number in dicimal
syntax	structure of language
value	returns a list of all the values available in a given dictionary.
while	it's a loop that will go over and over until you stop it
loop	traditionally used when you have a piece of code which you want to repeat n number of times
input	Run the program. In the Shell you should see
print	to show information on the
modulo	leave remainder
#	Comment, no effect
randon.choice	program that someone wrote
import random	to get get a random program from someone
import	to import program from someone
import random + random.choice()	pick random item in the list
palindrome	is derived from the Greek palíndromos, meaning running back again

Guess word game

import random
#Create a list
guesslist = ['grape', 'orange', 'chloroplast', 'ribosome', 'lipstick']
chance = 3
score = 0

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Guess word game (cont)	fuction
print (guesslist)	<pre>def bacon():</pre>
while chance != 0:	print ('bacon')
random_item = random.choice(guesslist)	print ('egg')
user_input = input("Please guess a word: ")	print ('text')
if user_input == random_item:	
print ("That's correct!")	print ('gta')
score = score + 100	print ('guildwar')
print ("Score:", score)	<pre>print ('magalodon')</pre>
else:	return
if user_input not in guesslist:	bacon()
print ("Sorry, that isn't even in the list!")	bacon()
chance = chance - 1	
print ("Chance Remaining:", chance)	bacon
else:	egg
print ("Sorry, wrong choice!")	text
chance = chance - 1	gta
print ("Chance Remaining:", chance)	guildwar
if chance == 0:	magalodon
print ("The word was", random_item)	bacon
print ("The score is", score)	egg
	text
Sort word per line	gta
muete "Hollo"	guildwar
mystr = "Hello"	magalodon
letter_num = 0	

Example

def circlearea(r): pi = 3.1415 area = pir*2 return area r = input ('enter the radius of the circle : ') r = float(r) print ('the area of the circle is', circlearea(r)) enter the radius of the circle : 5

the area of the circle is 78.5375000000001

Example

def circlearea(r): pi = 3.1415 area = pir*2 return area r = input ('enter the radius of the circle : ') r = float(r) print ('the area of the circle is', circlearea(r))

enter the radius of the circle : 5 the area of the circle is 78.5375000000001 >>>

letter_num = 0
while letter_num < len(mystr):
print (mystr[letter_num])
letter_num = letter_num + 1</pre>

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0

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

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