

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)

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

.....

Python Intro Assignment #2

name

student number

.....

#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)

example

Print (2) - integer

Print (2.5) - floating point

Print ("Hello") - string

Print (mystr) – variable



By **ppinkyy**

cheatography.com/ppinkyy/

Published 15th February, 2016. Last updated 23rd February, 2016. Page 1 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com



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

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	
<pre>def myprint(text) :</pre>	
<pre>print ('xxx'+str(text)+'xxx')</pre>	
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

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

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



12

By **ppinkyy** cheatography.com/ppinkyy/

Published 15th February, 2016. Last updated 23rd February, 2016. Page 2 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com



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

Guess word game (cont)

```
print (guesslist)
while chance != 0:
random_item = random.choice(guesslist)
user_input = input("Please guess a word: ")
if user_input == random_item:
print ("That's correct!")
score = score + 100
print ("Score:", score)
if user_input not in guesslist:
print ("Sorry, that isn't even in the list!")
chance = chance - 1
print ("Chance Remaining:", chance)
else:
print ("Sorry, wrong choice!")
chance = chance - 1
print ("Chance Remaining:", chance)
if chance == 0:
print ("The word was", random_item)
print ("The score is", score)
```

Sort word per line

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

Print Name

0

```
\begin{split} & \text{name} = \text{"tim GIRARD"} \\ & \text{print (name.upper())} \to \text{TIM GIRARD} \\ & \text{print (name.lower())} \to \text{tim girard} \\ & \text{print (name.capitalize())} \to \text{Tim girard} \\ & \text{print (name.title())} \to \text{Tim Girard} \end{split}
```

fuction

```
def bacon():
    print ('bacon')
    print ('egg')
    print ('text')
    print ('gta')
    print ('guildwar')
    print ('magalodon')
    return
bacon()
bacon()
```

```
bacon
egg
text
gta
guildwar
magalodon
bacon
egg
text
gta
guildwar
magalodon
```

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 78.53750000000001
>>>
```

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 78.53750000000001
>>>
```

