

Python note! Cheat Sheet

by dragonjeen via cheatography.com/25753/cs/6872/

Function

input to write something to ask or tell the user

()

print to write out on the screen

()

to make the number to integer.

float turn the number into decimal point

()

str() a list of things

len (the length of the word

)

int = integer

str = string

len = length

Statements

If Statement

if:

elif:

else:

While Loop

while:

For Loop

for var in list:

Counting For Loop

for i in range(1,101): 1-100

elif = else if

Circle area

#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)

Guess word game

import random

list = ['a', 'b', 'c', 'd', 'e']

chance = 3

score = 0

print (list)

while chance != 0:

random_item = random.choice(list)

user = input("guess a word ")

Guess word game (cont)

if user== random_item:

print ("That's correct!")

score = score + 100
print ("Score:", score)

else.

if user_input not in guesslist:

print ("Sorry, that isn't even in the list!")

chance = chance - 1

print ("Chance Remaining:", chance)

else:

print ("Wrong choice!")

chance = chance - 1

print ("Chances:", chance)

if chance == 0:

print ("The word is", random_item)

print ("Your score", score)

Triangle

def areatriangle(base,height):

area = (base*height)/2

return area

base = float(input(" Enter the base of the

triangle"))

height = float(input(" Enter the height of the

triangle"))

print ("The area of the triangle is", areatriangle(base,height))

def volumeprism(area,height):

volume= area*height

return volume

prism_height = float(input("Enter the height of

the prism"))

print("The volume of the prism is",

 $volume prism (a reatriangle (base, height), prism_height) = (base, height) = (base, heigh$

ght))

C

By dragonjeen

cheatography.com/dragonjeen/

Published 14th March, 2016. Last updated 15th March, 2016. Page 1 of 3. Sponsored by **Readability-Score.com**

Measure your website readability! https://readability-score.com



Python note! Cheat Sheet

by dragonjeen via cheatography.com/25753/cs/6872/

radius

def area_circle(r): pi=3.1415 area= pi r * 2

return area

radius= input("Enter the radius of the circle")
radius=float(radius)

print("The area of the circle is", area_circle(radius))

Symbol

== equal to

!= not equal

< less than

> more than

<= less than or equal to

>= more than or equal to

= is only for variable not for doing math

Symbol II

+ combine / plus

- minus

/ division

* multiplication

** power

% remainder

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)

Countdown

number = int(input("Write a number,I'll
countdown to one."))

while number>0 : print(number)

number = number-1

sort word

Н

е

1

1

mystr = "Hello"

letter_num = 0

while letter_num < len(mystr): print (mystr[letter_num])

letter_num = letter_num + 1

Calculator

ask =input("Write down two number and an operation in a form of.... main(?,?,?), example: main(2,3,sum), start a new line")

def sum(a,b):

return a+b

def diff(a,b):

return a-b

def mult(a,b):

return a*b

def div(a,b):

return a/b

def main(num1,num2,op):

if (op == "sum"):

print(sum(num1,num2))

elif (op == "difference"):

print(diff(num1,num2))

elif (op == "product"):

print(mult(num1,num2))

elif (op == "division"):
print(div(num1,num2))

function

def bacon(text): # text is a parameter, pararmeter is what u give to the function

print ("" + str(text)+ "")

return

bacon("me")

bacon("yay")

def bacon2(text,decoration):

print (decoration +str(text) +decoration)

return

bacon2("hello", "++++++")

bacon2("me", "-=-=-=-")

bacon2("<3", "<<<<<<")

bacon2("hello") # miss decoration

C

By dragonjeen

cheatography.com/dragonjeen/

Published 14th March, 2016. Last updated 15th March, 2016. Page 2 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com



Python note! Cheat Sheet

by dragonjeen via cheatography.com/25753/cs/6872/

double it

def doubleit (number): # dont have to call it doubleiT, CALL WHATEVER U WANT return number*2

print (doubleIt(2))
print (doubleIt("Hello"))

myvar = doubleIt(doubleIt(3)) #same as
doubleIt(6)

print(myvar)

Vocabulary

	,
variable	a value and can be change
string	a list of character such as number, letter and symbols
integer	whole number or counting number
float	decimal number
syntax	grammar or structure of lauguage
value	returns a list of all the values available in a given dictionary.
loop	going over and over again repeating
modulo	remainder
Boolean	truth or false

Random

import random include the random program random.choice(pick a random item on your list

import = put the program(somebody wrote
it) in

Convert to binary

numb = int(input("Write down another number,I'll turn it into binary."))

binary_string = "

while numb>0: print (numb)

remainder = numb%2

binary_string = str(remainder)+ binary_string numb= numb//2

print ("The binary number is",binary_string)

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

sort list

Sort fruit list

fruits = [] #an empty list

for number in range(5):

user_fruit = input("Please enter a fruit")

fruits.append(user_fruit)

print ("Size of fruit list is", len(fruits))

fruits.sort()

for fruit in fruits: print ("Fruit: ", fruit)

Palindrome

while True:

word = input("Enter a word")

if word == "quit":

break

print ("The lenght of the word is",len(word))

reverse="

index = 0 #set to 0 because that is the first item in the list

while int(index)<len(word):

reverse=word[index] + (reverse)

index=int(index)+1

Palindrome = False

print ("|" + reverse + "|" + word +"|")

def isPalindrome(word):

if word == reverse:

print (True, ",",word ,"is a palindrome")

else:

print(False, ",",word ,"is not a palindrome")

palindrome = isPalindrome(word)

print in seperated line

mylist=[1,2,3,4,5] for number in mylist: print(number)



By dragonjeen

cheatography.com/dragonjeen/

Published 14th March, 2016. Last updated 15th March, 2016. Page 3 of 3. Sponsored by **Readability-Score.com**Measure your website readability!
https://readability-score.com