Cheatography

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
int ( )	turn to number to be able to do math or 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", volumeprism(areatriangle(base,height),prism_height))
```

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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

H
e
l
l
o

```
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
```

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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()) → TIM GIRARD
print (name.lower()) → tim girard
print (name.capitalize()) → Tim girard
print (name.title()) → 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)
```

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