

Python Cheat Sheet by mint.sirikorn via cheatography.com/25740/cs/6859/

Functions	
print()	displays information on the screen
input()	receives information from the user
int()	converts a value to an integer
float()	change number to be decimal number
str()	a list of characters
len()	The length of the string
""" """	comment (many lines)
#	comment(one line)
import random + random.choice()	pick random item in the list

Vocabulary		
variable	holds a value and can be changed	
string	a list of characters such as number, letter, symbols	
input	receives information from the user	
float number	number with a decimal	
syntax	structure of language or grammar	
integer	whole number or counting number	
print	displays information on the screen	

value the number or string can be store in valuable syntax make impossible to the phase error

```
Code
mystring = "hello"
print (mystring)
firstname = input ("What is your
first name? ")
lastname = input("What is your last
name? ")
fullname = firstname + " " +
lastname
print (fullname)
letternumber = int(input("What is
letter number? "))
if letternumber > len(fullname):
      print ("invalid letter
number, try again! ")
else:
     letter =
(fullname[letternumber] )
      print (letter)
      numberletter =
int(input("How many times to print
letter ? "))
     if numberletter > 100:
            print ("too many
letter too print! ")
      else:
            print (letter *
numberletter)
```

Area of a triangle

```
def areaoftriangle(base, height):
    return base height 1/2
base = float(input('Enter the base
of the triangle: '))
```

```
Area of a triangle (cont)

height = float(input('Enter the height of the triangle: '))

print ('The area of the triangle is', areaoftriangle(base, height))
```

```
Python Palindrome
while True:
   def ispalindrome(word):
        reverse= ""
        myresult= ""
        for letter in word:
            reverse= letter+
reverse
        if word == reverse:
           return True
        else:
           return False
            reverse= ""
   word= input("Please enter a
word: ")
   if word == "quit":
       break
   myresult= ispalindrome(word)
    print("This word has",
len(word),"letters")
   if myresult == True:
       print(True,',',word+str("
is a palindrome"))
   else:
        print(False,',',word+str("
is not a palindrome"))
# Print: Please enter a word:
kayak
This word has 5 letters
True , kayak is a palindrome
Please enter a word: mint
This word has 4 letters
False , mint is not a palindrome
```



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Cheatography

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Recieve number and determine number

```
9 is divisible by3
7 is not divisible by 3
usernumber= input("Please enter the
a number: ")
remainder= usernumber%3
if remainder ==0:
print(usernumber, "is divisible by
3")
else:
print(usernumber, "is not
divisible by 3")
4 is positive 0 is zero -8 is negative
usernum= input("Pls enter the
number: ")
if usernum>0:
  print(usernum, "is positive")
elif usernum==0:
  print(usernum, "is zero")
  print(usernu, "is negative")
```

areaOFEllipse

```
# the function should be given two
parameters and should return the
area
def areofellipse(r1r2):
    area= 3.14r1r2
    return(area)
r1= float(input("Enter radius1: "))
r2= float(input("Enter radius2: "))
area= areaofellipse(r1,r2)
print(area)
```

Operation

==	equal to
!=	not equal
<	less than
>	greater than
<=	less than or equal to
>=	greater than or equal to
%	Modulo, find the remainder

Multiplication and Exponents

string * number	combine that string multiple times
string * string	crash
number *	math - multiply
string ** string	crash
number **	math - exponents
string **	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)</pre>
```

Random choice code

```
import random
mylist =
['cat','dog','chicken','bird','fish
1]
score = 0
chances = 3
start_over = 0
random_item =
random.choice(mylist)
while chances > 0:
  start_over = 0
  random_item =
random.choice(mylist)
  while start_over < 1:</pre>
    print ("----")
    print ("Guessing Game")
    print ("-=-=-=")
    print("words:", mylist)
    guess = input("Guess a word:
    if (guess in mylist):
       if(guess == random_item ):
        print("That's correct!")
        score = score + 100
        print("Score:", score)
        start_over = 2
       else:
        print("Sorry, wrong
choice!")
        chances = int(chances) -1
    else:
      print("Sorry, that is not
even in the list")
      chances = int(chances) -1
     if(chances > 0):
       print("Chances
remaining: ", chances)
    else:
       start_over = 2
```



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Random choice code (cont)

```
print("Game Over! The word
was ", random_item)
        print("Chance remaining:",
chances)
        print("Final score:",
score)
```

Convert number to binary

```
user_number = " "
while user_number != "0":
  user_number = input ("enter a
number")
  number = int(user_number)
  binary_string = " "
while (number>0):
   remainder = number % 2
  binary_string = str(remainder) +
binary_string
  number = numbe//2
  print (number)
   print ("binary string is ",
binary_string)
```

code

```
def createlist(quitword):
  mylist= []
   while True:
       item= input("Please enter a
list item: ")
       if item == quitword:
          return mylist
       duplicateword= False
       for myvar in mylist:
         if myvar== item:
            duplicateword= True
       if duplicateword= True:
            print ("Duplicate word!
")
       else:
            mylist.append(item)
```

code (cont)

```
mylist= createlist ("stop")
print(mylist)
```

For loop

```
12
mystring= ""
for number in range (3)
    mystring= mystring+
str(number)
    print (mystring)
or
mystring=""
count=0
while count<5:
  mystring= mystring+str(count)
  print(mystring)
  count= count+1
```

Addition

```
string + string
                         combine togrther
string + number
                         crash
number + number
                         math - addition
```

List code

```
shoppinglist = ['tshirt', 'pants',
'socks']
for myvariable in shoppinglist:
     print (myvariable)
mylist=[1,2,3,4]
number= 0
while number<len(mylist):</pre>
   print (mylist[number])
```

List code (cont)

number= number+1

Random code

```
import random
mylist =
['Dog', 'Fish', 'Cat', 'Bear']
counter = 0
while counter < 10:
          random_item =
random.choice (mylist)
          print (random item)
          counter = counter + 1
```

Print name

```
name = "time GIRARD"
print (name.upper()) > TIM GIRARD
print (name.lower()) > time girard
print (name.capitalize()) > Tim
girard
print (name.title()) > Tim Girard
```

Area of circle

```
while True:
      user_radius = input("What is
the radius? ")
       radius = float(user_radius)
       pi = 3.1415
       area = pi radius * 2
       print ("The area of the
circle is", area)
```

Loop doesn't go forever

```
gameover= 0
while (gameover == 0):
   print("hello")
   gameover= 1
```



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while loop

```
wlist= [2,4,5,6,7,8]
index= 0
while index< len(wlist):
    print(wlist[index])
    index= index+1</pre>
```

code

```
# receives input from the user in a
loop. convert the input to an
integer and print out that integer
multiplied by 10
while True:
    usernumber= input("Please enter
the number: ")
    answer= int(usernumber)*10
    print (answer)
```

Count down code

```
#create a program that receives a
number from the user and count down
from that number on the same line
#receive the number from the user
as a string
user_number= input("enter number")
#convert the user number to an
integer
number = int(user_number)
#setup the countdown string
countdown_string = " "
while number > 0:
       #add the number to the
string
       #subtract 1 from the number
       countdown_string =
countdown_string + str(number) + "
       number = number-1
print (countdown_string)
```

Count down code (cont)

```
#output should look like this
# if the user enter 5:
#5 4 3 2 1
#print (countdown_string)
```

Word length

```
while True:
    usernumber= input("Please enter
a word: ")
    if usernumber == "exit":
        break
    print(len(usernumber))
# Please enter a word: hello
5
Please enter a word: pls
3
Please enter a word: exit
```

True False

create function= def
True or anything is True
False and anything is False

User enters 12.5, print out 6.25

```
number= float(input("Please enter
number: "))
print (number/2)
```

Even number

```
# print all the even numbers from 1
to 100 using while loop
number=0
while number<100:
    variable= number+2
    print(variable)</pre>
```

Multiplication Table

```
usernum= int(input("Enter a number:
"))
numlist= [1,2,3,4,5,6,7,8,9,10]
for num in numlist:
    answer= usernum*num
    print (user,"*",num,"=",answer)
```



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