

python cheat sheet - ToeyD Cheat Sheet by ttoeysd via cheatography.com/25880/cs/6994/

Vocabulary		
Variable	Hold a value and be change	
String	A list of character such as number, letter and symbols	
Integer number	Whole number/counting number	
Float number	The number in decimal	
Syntax	Grammar/Structure of language	
Modulo	Find the remainder	
Boolean	True/False	

Function		
print()	Show the information that you want on the screen	
int()	Change number to be number integer	
float()	Change number to be decimal number	
input()	Gain information from user	
str()	A list of number, letter and symbols	
len()	The length of the string	
#	Comment, no effect	

while True: # forever user_input = input('Enter a number: ') number = int(user_input) print ('The number squared is', number ** 2)

Forever While Loop

Conditional While Loop

count = 0 # start at zero while count < 10: # loop while count is less than 10 print(count) #will print numbers 0 - 9 count = count + 1 # must increase count</pre>

mylist = [2,3,4,5] # create a list #select an item from a list print (mylist[0]) #selects first item and displays 2 # len() determines the length of the list print (len(mylist)) # displays 4 mylist.append(5) # adds an item to the end of the list

Multiplication and Exponents				
string * number	Combine that string			
string* string	CRASH!			
number * number	Multiply (Math)			
string ** string	CRASH!			
number ** number	Exponent (Math)			
string ** number	CRASH!			

matin	
==	equal to
!=	no equal to
<	less than
>	more than
<=	less than or equal to
>=	more than or equal to
%	Modulo, Find the remainder

Addition	
string + string	Combine together
string + number	CRASH!
number + number	Addition (Math)

```
convert number to hexadecimal
while True:

#get a number from the user
    user_number = input("Please
enter a number: ")
    #convert to integer
    number = int(user_number)
    hex string = ''
```

```
while (number > 0): #the number
is greater than 0)
       remainder = number % 16
#use Modulo %
        if remainder == 10:
            remainder = 'A'
        elif remainder == 11:
            remainder = 'B'
        elif remainder == 12:
            remainder = 'C'
        elif remainder == 13:
            remainder = 'D'
        elif remainder == 14:
            remainder = 'E'
        elif remainder == 15:
            remainder = 'F'
        hex_string =
str(remainder) + hex_string
#remainder + hex string
        number = number // 16#must
use // when you divide
    #after the loop print the hex
string
   print ("Hexadecimal string is
0x" + hex_string)
    #expected output - 5 = 101
    \#excepted output - 3 = 11
    \#excepted output - 2 = 10
```

```
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)
```



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Create function

```
# how to create a function
def nameOfFunction (myvar1, myvar2): #
parameters or argu ments
   print ("hello") #must indent each line that
is part of the function
   return myvar1 + myvar2
# function call
nameOfFunction ('hi', 'there') # a value for
each argument
#write a function
# name : areaOfTriangle
# parameters : base height
# return : area
def areaOfTriangle (base, height):
    area = 0.5*base*height
    return area
```

Decision Making/Conditional Statements

```
if 3 < 2: #if statement must compare two
Booleans
    print ('3 is less than 2')
elif 4 < 2: #can have 0 or more elif statements
    print ('4 is less than 2')
elif 5 < 2:
    print ('5 is less than 2')
else: #can have 0 or 1 else statement at the
end
    print ('none of the above are True')</pre>
```



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