

Commands Cheat Sheet

by chatchana12 via cheatography.com/26058/cs/7161/

Commands		
print()	A command used to print something	
int()	A command used to convert any kinds of number into integer	
float()	A command used to convert any kinds of number into decimal numbers	
input()	A command used to obtain information from the user	
str()	A command used to convert letters or numbers into a string	
len()	A command used to determine the length of a string	
#	A command used to make statements a comment that does not have any effect on the coding	

Mathematical operators

==	equal to
!=	not equal to
<	less than
>	more than
<=	less than or equal to
>=	more than or equal to
%	Modulo, used to find a remainder

Variable names condition

Following conditions must me followed:

- -letters
- -numbers
- -underscore

Valid name

- myStr
- my3
- Hello_there

Invalid name

- 3my="hi" -- cannot start with number
- first name="hi"
- first-name
- first+name

Guess a word game

import random Chances=5

Score=0

while Chances>0:

mylist=

['Moscow','Berlin','Vancouver','SaintPetersburg','

Chioago'l

random_item=random.choice(mylist)

print(mylist)

print (random_item)

user_guess=input("guess a word:")

if user_guess==random_item:

print("Chances remaining:",Chances)

print("Correct guess")

Score=Score+100

else

Chances=Chances-1

print("Sorry, wrong choice")

print("Chances remaining:",Chances)

print("The correct answer was:",random_item)
print("Your score now is:",Score)

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Variable	Hold a value and can be changed. It can also be set to a string of words
String	A list of character such as number,letter and symbols
Integer number	Whole number/counting number
Floating point	Numerical values in decimal
Syntax	Grammar/Structure of language
Modulo	Used to find a remainder

Example

Print (2) – integer

Print (2.5) – floating point

Print ("Hello") – string

Print (mystr) – variable

Print (mystr,"Hi",2,1.0) -- commas

mystr = "Hi"

mystr \leftarrow Variable

"Hi" \leftarrow value can be changed

print (int(1.5)) \rightarrow 1

print (int("2")) \rightarrow 2

print (float(1)) \rightarrow 1.0

Modulo/Remainder %

Binary number conversion

print $(4\%2) \rightarrow 0$ print $(30\%7) \rightarrow 2$

user_number = ' '
while user_number != ' 0 ' :
user_number = input ("Enter a number to
convert to binary")
number = int(user_number)
binary_string = ' '
while (number > 0):
remainder = number%2
binary_string = str(remainder)+ binary_string
number = number//2
print ("Binary string is", binary_string)

Addition

string+string	Combine the two strings together
string+number	CRASH!
number+numb	Add numbers together



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Published 12th February, 2016. Last updated 12th February, 2016. Page 1 of 2.

Boolean True or False

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elif remainder==13:

remainder='D' elif remainder==14:

remainder='E' elif remainder==15:

remainder='F'

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Hexadecimal conversion (cont)

hex_string= str(remainder)+ hex_string

#after the loop print the hex string
print('hexadecimal string is 0x'+hex_string)

#expected output-5=101

#expected output-3=11
#expected output-2=1

Multiplication and exponents

string*num Duplicate the strings x time = ber numerical r values

string*strin CRASH!

α

number*nu multiply numbers together mber

string**strin CRASH!

g

number**nu Exponent(math)

mber

string**num CRASH!

ber

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)

Hexadecimal conversion

#write a program that converts a number to

hexadecimal

while True:

#get a number from the user

user_number= input("Choose your number: ")

#convert to integer

number=int(user_number)

hex_string="

 $while (number > 0): \#the \ number \ is \ greater \ than \ 0$

remainder= number%16#use modulo %

number= number//16#must use//when you

divide

if remainder ==10:

remainder='A'

elif remainder==11:

remainder='B'

elif remainder==12:

remainder='C'

C

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