Cheatography

Win python Cheat Sheet by win_muids via cheatography.com/25892/cs/7017/

Function

str()	make the number or symbol
input()	to get infomation from the user
print()	to show some infomation that in the code
int()	the integers
len()	length of the string
#	comment

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

Multiplication and Exponent				
string*number	Combine the string			
string*string	CRASH!			
number*number	Multiply(math)			
string**string	CRASH!			
number**number	Exponent(math)			
string**number	CRASH!			

Convert to binary

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)

Random

```
import random
intlist = [1, 2, 3, 4, 5,]
random_int =
random.choice(intlist)
print (intlist, random_int)
fplist = [1.5,2.5,3.5,4.5,5.5]
random_fp = random.choice(fplist)
print (fplist, random_fp)
strlist = ['1', '2', '3', '4',
'5']
random_str =
random.choice(strlist)
print (strlist, random_str)
mylist = [1, 2, 3, 4, 5, 1.5, 2.5,
3.5, 4.5, 5.5, '1', '2', '3', '4',
'5' ]
random_item =
random.choice(mylist)
print (mylist, random_item)
myvar1 = 1
myvar2 = 2
myvar3 = 3
varlist =[myvar1, myvar2, myvar3]
random var =
random.choice(varlist)
print (varlist, random_var)
```

Vocab

Variable	The unknow that can be change
String	a list of character
Float	Decimal number
Integer	Whole number
Syntax	structure of langauge
Boolean	True/False
Length	the length of the string
Modulo	Finds the remainder

Symbol	
==	equal to
!=	not equal to
<	less than
>	more than

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Symbol (cont)

<=	less than or equal to
>=	more than or equal to
%	Modulo, find remainder
+	plus
-	subtract
*	multiply
**	exponent

Reverse code

```
while True:
word = input("Please enter a
word")
index = 0
reverse = ' '
```

```
while int(index) < len(word):
reverse = word[index] + (reverse)
index = int(index) + 1</pre>
```

print ("Reverse:" , reverse)

Name Convention

Rule for giving name

- letter - numbers - underscore__ Valid name - _mystr

- my3
- Hello_there
- Invalid name
- 3my="hi" -- cannot start with number
- first name="hi"
- first-name
- first+name

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