Cheatography

HacklnwMuids Cheat Sheet

by hacklnw1 via cheatography.com/25872/cs/6999/

Math

+	plus
-	minus
*	multiply
/	divide give decimal
==	equal to
!=	not equal to
<	less than
>	more than
<=	less than or equal to
>=	more than or equal to
%	to find remainder
**	power
//	divide give integer

Binary

```
user_n umber = input( " Enter
number to convert to binary : ")
number = int(us er_ number)
binary _string = ''
while (number > 0):
        rem ainder = number % 2
        bin ary _string =
str(re mai nder) + str(bi nar -
y_s tring)
        number = number // 2
print ("Binary string is", bin -
ary _st ring)
```

Radius pi

```
while True:
        use r_r adius =
input( " Please enter the radius
of the circle ")
        radius = float( use -
r_r adius)
       pi = 3.1415
```

Radius pi (cont)

```
>    area = piradius*2
   print ("The area of the circle is", area)
```

==

```
myboolean = 2 == 3
if myboolean:
          print ("tr uth ")
else:
          print ("li es")
```

0,01,012,0123,01234

```
mystring = ''"
count = 0
while count <= 4:
        mys tring = mystring +
str(count)
        print (mystring)
        count = count + 1
mystring = " "
for num in range(5):
        mys tring = mystring +
str(num)
        print (mystring)
```

1 * 1 = 1

```
def multiplicationTable(num):

        multi = 0
        while multi < 10:
                multi = multi +
1
                use r_o utput =
num*multi
                print (
num,"*", mul ti, " =",u ser -
_ou tput)
user_num = int(in put ("Enter
the number: "))
multip lic ati onT abl e(u ser -
_num)
```

Fibonacci

```
num1 = 0
num2 = 1
fibonacci = num1 + num2
output = " 0,1 "
while fibonacci < 50:
         output = output +","+
str(fi bon acci)
        num1 = num2
        num2 = fibonacci
         fib onacci = num1 + num2
print (output)
```

Boolean

False or True	True
False and True	False
True and False	False
True and True	True
False or False	False

Multiplication and Exponent

string * number	Repeat that string by number
string * string	CRASH!
number * number	Multiply (Math)
string ** string	CRASH!
number ** number	Exponent (Math)

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Multiplication and Exponent (cont)

string ** number	CRASH!

```
String * Number
num = 1
stri = str(num)

print (stri * 3)

_____

#After running program
111
```

Hex

```
user_number = input("Enter
number to convert to hex : ")
number = int(us er_ number)
hex_string = ''
while (number > 0):
        rem ainder = number % 16
       if remainder == 10:
                rem ainder = 'A'
       elif remainder == 11:
                rem ainder = 'B'
       elif remainder == 12:
                rem ainder = 'C'
       elif remainder == 13:
                rem ainder = 'D'
       elif remainder == 14:
                rem ainder = 'E'
       elif remainder == 15:
                rem ainder = 'F'
        hex _string = str(re -
mai nder) + str(he x_s tring)
        number = number // 16

print ("Hex string is 0x", hex -
_st ring)
```

Math

```
print(2)#interger
print( 2.5 )#f loa tiong point
print( "this is a string " )#s -
tring
myStr = " hel lo"
print (myStr)
print ("he llo " , 1, 2)
print ("""
hello
yeah
.
.
.
.
" " ")
" " "
This multi line comment #lol
" " "
#variable name
#can have interger, lowerc -
ase /up percase letters,
unders cores
#Mate operators
# + - / *
#exponents
#2 to the power of 3
print (2 2 2 )
print (2 ** 3)
#Modul o/R ema inder
print (4%2) #remainder = 0
print (33%2) #remainder = 1
#convert to floating point
print (float(2))
```

Math (cont)

```
> #covert to a string
myint = 1
mystring = str(myint)
print (mystring * 3)
#true/false - Boolean
print (2 < 3)
```

Addition

string + string	Combination of string
string + number	CRASH!
number + number	Add (Math)

Reverse

```
word = input("Please put a word
:")
reverse = " "
letternum = 0
while letternum < len(word):
        reverse = (word[ let -
ter num]) + reverse
        let ternum = letternum +
1
print ("Re verse: " ,re verse)
for num in word:
        reverse = num + reverse
print ("Re verse: " ,re verse)
```

Guess

```
import random
chance = 3
score = 0
mylist = ['Hack', 'ToeyD.',
'Patte r', 'Ti m', 'Lily']
random _item = random.ch oic -
e(m ylist)
while chance > 0:
        print (mylist)

        print ("Ch ances
Remaining =",c hance)
```


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Guess (cont)

```
>    guess = input("Guess a word from the above :")

   if guess == random_item:
      score = score + 100
      print ("That's correct!","The score is :",score)
      random_item = random.choice(mylist)
   else:
      print ("Sorry, wrong choice!")
      chance = chance - 1
   if guess in mylist:
      print ("")
   else:
      print ("Sorry,that is not even in the list!")
   if chance == 0:
      print ("Game Over! The word was",random_item)
      print ("Final score: ",score)
```

Even,Odd number

```
even = 0
odd = 0
while True:
        use r_num = int(in put -("Enter the number :"))
       if user_num >= 0:
               if user_num % 2 == 0:
                       even = even + 1
                else:
                       odd = odd + 1
        else:
                print ("Even number :", even)
                print ("Odd number :", odd)
                break
```

Definition

```
def printDefinition(word):
       if word == " var iab le":
                print ("""
               A variable is the the thing that can be changed.
                " " ")
       elif word == " par ame - ter ":
                print ("""
               A parameter is the limiting factor
                " " ")
       elif word == " arg ume - nt":
                print ("""
               An argument is the identifier that you give to function
                " " ")
       elif word == " str - ing ":
                print ("""
               A string is something that can be repeated by the number.
                " " ")
       elif word == " fun ction call":
                print ("""
               A function call is the word you use to reuse the function.
                " " ")
        else:
                print ("un known word")
while True:
        use r_input = input( " - Please type the word :")
        pri ntD efi nit ion -(us er_ input)
```


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