## Cheatography

| 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_number = input("Enter number
to convert to binary : ")
number = int(user_number)
binary_string = ''
while (number > 0):
remainder $=$ number \% 2
binary_string = str(remainder)

+ str(binary_string)
number $=$ number // 2
print ("Binary string
is",binary_string)


## Radius pi

while True:
user_radius = input("Please
enter the radius of the circle")
radius = float(user_radius)
pi $=3.1415$
area $=$ pi radius*2

## By hacklnw1

cheatography.com/hacklnw1/

## Radius pi (cont)

print ("The area of the circle is", area)

```
==
myboolean = 2 == 3
if myboolean:
    print ("truth")
else:
    print ("lies")
```


## $0,01,012,0123,01234$

```
mystring = ''"
```

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

## 1 * 1 = 1

def multiplicationTable(num):
multi $=0$
while multi < 10:
multi $=$ multi +1
user_output $=$ num*multi
print (
num, "*", multi,"=", user_output)
user_num $=$ int(input("Enter the
number: "))
multiplicationTable(user_num)

Published 12th February, 2016.
Last updated 21st March, 2016.
Page 1 of 3 .

## Fibonacci

```
num1 = 0
num2 = 1
fibonacci = num1 + num2
output = "0,1"
while fibonacci < 50:
    output = output +","+
str(fibonacci)
    num1 = num2
    num2 = fibonacci
    fibonacci = 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 <br> number |
| string * string | CRASH! |
| number * | Multiply (Math) |
| number | CRASH! |
| string ** string <br> number ** <br> number | Exponent (Math) |

## Sponsored by Readability-Score.com

Measure your website readability!
https://readability-score.com

| Multiplication and Exponent (cont) |
| :--- |
| string ${ }^{* *}$ number |
| String * Number <br> num $=1$ <br> stri $=$ str(num) <br> print (stri * 3) <br> \#After running program <br> 111 |

## Hex

user_number = input("Enter number to convert to hex : ")
number $=$ int(user_number)
hex_string = ''
while (number > 0):
remainder = number \% 16
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) +
str (hex_string)
number = number // 16
print ("Hex string is
0x", hex_string)
print ("Hex string is
0x", hex_string)

| Math |
| :---: |
| print (2) \#interger |
| print(2.5) \#floationg point |
| print("this is a string")\#string |
| myStr = "hello" |
| print (myStr) |
| print ("hello" , 1, 2) |
| print ("") |
| hello |
| yeah |
| - |
| - |
| - |
| - |
| """) |
| " " " |
| This multi line comment \#lol "" " |
| \#variable name |
| \#can have interger, |
| lowercase/uppercase letters, underscores |
| \#Mate operators |
| \# + - / * |
| \#exponents |
| \#2 to the power of 3 |
| print (2 222 ) |
| print (2 ** 3) |
| \#Modulo/Remainder |
| print (4\%2) \#remainder $=0$ |
| print (33\%2) \#remainder = 1 |
| \#convert to floating point |
| print (float (2)) |
| \#covert to a string |

## Math (cont)

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[letternum]) + reverse

```
    letternum = letternum + 1
```

print ("Reverse: ",reverse)
for num in word:
reverse $=$ num + reverse
print ("Reverse: ",reverse)

## Guess

```
import random
```

chance $=3$
score $=0$
mylist $=$ ['Hack', 'ToeyD.',
'Patter', 'Tim', 'Lily']
random_item $=$
random. choice (mylist)
while chance > 0 :
print (mylist)
print ("Chances Remaining
$="$, chance)
guess $=$ input("Guess a word
from the above :")
if guess == random_item:

Published 12th February, 2016.
Last updated 21st March, 2016.
Page 2 of 3.

## Sponsored by Readability-Score.com

Measure your website readability!
https://readability-score.com

## Guess (cont)

```
    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:
    user_num = int(input("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
```


## By hackInw1

cheatography.com/hacklnw1/

## Definition

def printDefinition(word):
if word == "variable": print (""" A variable is the the thing that can be changed.
""")
elif word == "parameter":
print ("""
A parameter is the limiting
factor
""")
elif word == "argument":
print ("""
An argument is the
identifier that you give to
function
""")
elif word == "string":
print ("""
A string is something that can be repeated by the number.
""")
elif word == "function call":
print ("""
A function call is the word
you use to reuse the function.
" " "
else:
print ("unknown word")

```
while True:
```

user_input = input("Please type the word :")
printDefinition(user_input)

## Published 12th February, 2016.

Last updated 21st March, 2016.
Page 3 of 3 .

## Sponsored by Readability-Score.com

Measure your website readability!
https://readability-score.com

