## Cheatography

## Python Nae Cheat Sheet

by Chutima Rakyu via cheatography.com/25741/cs/7574/

```
User as float, print half of the that number
user_number = float(input('enter
the number:'))
print (user_number/2)
```


## list, print all element from the list using loop

\# for loop solution
mylist $=[1,2,3,4,5]$
for number in mylist:
print (number)
\# while loop solution
mylist $=[1,2,3,4,5]$
num $=0$
while number < len(mylist):
print(mylist(number))
number $=$ number +1

```
print Fibonacci series between 0 to 50 using
print Fibonacci series between 0 to 50 using
```

num1 $=0$
num2 $=1$
fibonacci $=$ num1 + num2
myoutput = " 0,1"
while fibonacci <50:
myoutput = myoutput + "," +
str(fibonacci)
num1 =num2
num2 =fibonacci
fibonacci $=$ num1 + num2
print (myoutput)
$\qquad$

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The output of follwing code

```
Y = True
print (not y or 2< 3) output =
False
```


## print alleven numbers from 1100 using while loop

```
number = 0
while number < 100:
    number =number + 2
    print (number)
```

use a for loop to print the following
0
01
012
0123
01234
mystring = ""
for number in range(5):0
mystring $=$ mystring +
str (number)
print (mystring)
\# range(2) $=01$
receive input from user, convert
integer,print, 5
number $=$ int(input("Enter a
number:"))
print(num*5)

## output of the program

```
mystring = ""
count = 0
while count < 5:
    mystring = mystring +
str(count)
    print(mystring)
```


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| output of the program (cont) |
| :--- |
| 0 |
| 01 |
| 012 |
| 0123 |
| 01234 |
| Data types |
|  |
| String - a list of characters e.g. "abc123\$\% +1 |
| or |
| empty string "" |
| Integer - whole numbers, and negative numbers |
| e.g. -5, |
| 0, 2 |
| Floating Point - decimal numbers e.g. 1.5, 2.0, - |
| 2.99 |
| Boolean - True or False |

## Printing values:

print("hello", "there") \#displays hello there print("hello" + "there") \#displays hellothere

| Comments |
| :--- |
| \# hashtag - everything after \# is a comment not |
| code |
| """ |
| Double quote - Multi-line comment, everything |
| in |
| between three double quotes is a comments |
| """ |
| "' Single quote - Multi-line comment, everything |
| in |
| between three single quotes is a comments "' |

## the loop doesn't go forever

gameover $=0$
while (gameover ==0):
print("hello")
gameover = 1

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```
Receive number from user, number is
determine by 3
user_number = int(input("Enter the
number:"))
remainder = user_number%3
if remainder == 0:
    print (user_number, "is
divisible by 3")
else:
    print (user_number, "is not
visible by 3")
```


## MultiplicationTable

```
def multiplicationTable():
```

    user_number = input( "Enter the
    number:")
number = int(user_number)
count $=1$
While count <=10:
print (number,
" ", count, "=", numcount)
count $=$ count +1

```
Making number is negative, Zero or positive
user_number = int(input("Enter a
number"))
if user_number > 0:
    print(user_number,"is
positive")
elif user_number < 0:
    print(user_number,"is
negative")
else:
    print(user_number,"is equal to
zero")
```


## print all even number from -100 to - $\mathbf{- 1}$ (while <br> loop)

user_number= -100
while user_number< -1:
print (user_number)
user_number= user_number + 2

Published 20th March, 2016.
Last updated 20th March, 2016.
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positive integer,negative print HM odd, even

```
evencount =0
oddcount = 0
while True:
    number = int(input("Enter a
number"))
    if number < 0:
        print ("Even
number", evencount)
            print ("odd number",
oddcount)
        break
    else:
        if (number%2) == 0:
            evencount = evencount
```

$+1$
else:
oddcount $=$ oddcount +
1

## Basic Math Operations:

+ addition, - subtraction
/ divide with answer as a float. E.g. 5/2 == 2.5
// divide with answer as an integer. E.g. 5//2 == 2
* multiply
exponent. E.g. 2 power 3 == 23
\% modulo. Gives the remainder when dividing e.g. $33 \% 10==3$

All math operations use the sa
print out fifth character from the variable
myword = "hellothere"
print(hellothere [4])

## convert integer and multiply by 10 loop

## while True:

user_number =
int(input("enter a number")
number $=$ int(user_number) $* 10$
print (number)

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