## Addition Cheat Sheet

by draws via cheatography.com/25827/cs/6956/

| Addition |
| :--- |
| string + string $\quad$ combine together |
| string + number $\quad$ crash |
| number + number $\quad$ math - addition |
|  |
| 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 |

## Functions

print() displays information on the screen
input() receives information from the user
int() $\quad$ converts a value to an integer

| Math Operations |  |  |
| :---: | :---: | :---: |
|  | equal to | $9=9$ |
|  | not equal to | $55!=2$ |
|  | addition | $9+3=14$ |
| - | minus | $5-1=4$ |
|  | mutiply | 5 * $5=25$ |
| 1 | divide | $4 / 2=2$ |
| \% | remainder | $3 \% 2=1$ |
|  | power | $2^{* *} 2=4$ |
| < | less than | $1<2$ |
|  | more than | $2>1$ |
| <= | less than equal to | $2=<3$ |
|  | more than equal to | $3 \Rightarrow 2$ |
|  | divide by (no decimal point) | $3 / 300=100$ |

## By draws

cheatography.com/draws/


## Convert integer to binary

integer = input("Enter a number:")
integer $=$ int(integer)
remainder = integer
binary = ""
while integer $!=0$ :
remainder = integer \% 2
integer $=$ int(integer / 2)
remainderstr $=\operatorname{str}$ (remainder)

## Reverse Word

while True:
word = input("Please enter a word")
index $=0$
reverse $={ }^{\prime}$ '
while int(index) < len(word):
reverse $=$ word[index] + (reverse)
index $=$ int(index) +1
print ("Reverse: ", reverse)

## Multiplication \& Exponents

| string * | combine that string multiple |
| :--- | :--- |
| number | times |
| string * string | crash |
| number * <br> number | math - multiply |

string ** string crash

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| Multiplication \& Exponents (cont) |
| :--- |
| number ** number $\quad$ math- exponents |
| string ** number $\quad$ crash |
| naming convention |
| Rules for giving names |
| - letters |
| - numbers (Can't be the first letter) |
| - underscore _- |
| Valid |
| -_mystr |
| - my3 |
| - Hello_there |
| Invalid name |
| - 3my="hi" -- cannot start with number |
| -firstname ="hi" |
| = first-name |

