# Cheatography

# Addition Cheat Sheet by draws via cheatography.com/25827/cs/6956/

# Addition

string + string	combine together
string + number	crash
number + number	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()	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
/	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 => 2
//	divide by (no decimal point)	3/300 = 100

#### Vocabular

variable	holds a value & can be changed
string	a list of characters such as numbers, letters, symbols.

## Addition

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

#### code

print (name.upper())

print (name.lower())

print (name.capitalize())

print (name.title())

#### 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 = str(remainder)

## **Reverse Word**

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

#### **Multiplication & Exponents**

string * number	combine that string multiple times
string * string	crash
number * number	math - multiply
string ** string	crash

# By draws

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Published 15th February, 2016. Last updated 29th March, 2016. Page 1 of 1.

#### Multiplication & Exponents (cont)

number ** number	math- exponents
string ** number	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

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