# SongInwZa's cheat Cheat Sheet

by song34071 via cheatography.com/25878/cs/6998/

## Function

| | |
|---|---|
| print() | Show information that you want on the screen |
| int() | Change number to be number integer |
| float() | Change number to be decimal number |
| input() | Gain information from user |
| str() | A list of number, letter and symbols |
| len() | The length of the string |
| # | Comment, no effect |

## Addition

| | |
|---|---|
| string + string | Combine together |
| string + number | CRASH! |
| number + number | Addition (Math) |

## Function- maxvalue

```
# name: max2
# arguments: num1, num2
# return: the largest value
def max2(num1, num2):
    maxvalue = num1
    if num2 > num1:
        maxvalue = num2
    return maxvalue
print(max2(10, 9))
print(max2(1, 9))
# write a function that returns the largest of three values
# name: max3
# arguments: num1, num2, num3
# return: the largest value
def max3(num1, num2, num3):
    maxvalue = num1
    if num2 > maxvalue:
        maxvalue = num2
    if num3 > maxvalue:
        maxvalue = num3
    return maxvalue
print(max3(2, 12, 4))
print(max3(19, 9, 17))
```

## Function- maxvalue (cont)

```
# write a function that returns the largest number in a list
# name: maxlist
# arguments: list
# return the largest value in the list
def maxlist(list):
    # loop through the list
    return maxvalue
numlist = (1, 2, 3, 4, 5, 99)
print(maxlist(numlist))
```

## Vocabulary

| | |
|---|---|
| Variable | Hold a value and can be change |
| String | A list of character such as number, letter and symbols |
| Integer number | Whole number/counting number |
| Floating point | The number in decimal |
| Syntax | Grammar/Structure of lauguage |
| Modulo | Find the remainder |
| Boolean | True/False |

## Multiplication and Exponents

| | |
|---|---|
| string * number | Combine that string |
| string* string | CRASH! |
| number * number | Multiply (Math) |
| string ** string | CRASH! |
| number ** number | Exponent (Math) |
| string ** number | CRASH! |

## Math

| | |
|---|---|
| == | equal to |
| != | no equal to |
| < | less than |
| > | more than |
| <= | less than or equal to |
| >= | more than or equal to |
| % | Modulo, Find the 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)
```

## Convert to binary

```
Convert to binary
user_number = ''
while user_number != ' 0 ' :
user_number = input ("Enter a number to convert to binary")
number = int(user_number)
binary_string = ''
while (number > 0):
remainder = number%2
binary_string = str(remainder)+ binary_string
number = number//2
print ("Binary string is", binary_string)
```

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