# Cheatography

# nammmmmm by nam\_tanapat via cheatography.com/25882/cs/7001/

## 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

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

# Example

Print (2) – integer Print (2.5) – floating point Print ("Hello") – string Print (mystr) – variable Print (mystr,"Hi",2,1.0) -- commas

mystr = "Hi" mystr ← name "Hi" ← value can change

 $\begin{array}{l} \mbox{print (int(1.5))} \to 1 \\ \\ \mbox{print (int("2"))} \to 2 \\ \\ \mbox{print (float(1))} \to 1.0 \mbox{ anything to a float} \end{array}$ 

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Modulo/Remainder % print (4%2)  $\rightarrow$  0 print (30%7)  $\rightarrow$  2

# С

#### Area of Circle

Python Intro Assignment #2	
name	
student number	

#Ask the user for a radius of a circle user\_radius = input("What is a radius of a circle?")

#Convert the given radius to a floating point radius = float(user\_radius)

#Make a variable called pi pi = float(3.1415)

#Calculate the area of the circle using exponents area = pi(radius\*2)

#Display the area of the circle to the user print ("The area of the circle is", area)

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!	

#### Vocabular

vocabulary	
Variable	Hold a value and can be change
String	A list of character such as nubmer, letter and symbols
Interger number	Whole nubmer/ counting number
Float number	The numer in decimal
Syntax	Grammar/Structure of language
Modulo	Find the remainder
Boolean	True/False

#### Countdown machine

user\_number = input("What number do you
want to count down? ")
number = int(user\_number)
countdown\_string = ' '

while number > 0: countdown\_number = countdown\_string + str(number) + " " number = number - 1 #print(number)

print (countdown\_string)

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## Sort word per line

mystr = "Hello"

letter\_num = 0

#### while letter\_num < len(mystr): print (mystr[letter\_num]) letter\_num = letter\_num + 1

- H e I
- 0

#### Sort fruit list

fruits = [] #an empty list

for number in range(5): user\_fruit = input("Please enter a fruit") fruits.append(user\_fruit)

print ("Size of fruit list is", len(fruits))

fruits.sort()

for fruit in fruits: print ("Fruit: ", fruit)

#### 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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# Naming Convention

#### Rule for giving name

- letter
- numbers
- underscore \_

#### Valid name

- \_myStr
- my3 - Hello\_there

#### Invalid name

- 3my="hi" -- cannot start with number
- first name="hi"
- first-name
- first+name

# Print Name

#### name = "tim GIRARD"

 $\begin{array}{l} \mbox{print (name.upper())} \rightarrow \mbox{TIM GIRARD} \\ \mbox{print (name.lower())} \rightarrow \mbox{tim girard} \\ \mbox{print (name.capitalize())} \rightarrow \mbox{Tim girard} \\ \mbox{print (name.title())} \rightarrow \mbox{Tim Girard} \end{array}$ 

#### Math

Iviatii	
==	equal to
!=	no equal to
<	less than
>	more than
<=	less than or equal to
>=	more than or equal to
%	Modulo, find the remainder

#### Reverse Wor

```
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)
```

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