

Something cheap

print() Show the information you want on the screen

input() Change number to be number integer

str() A list of number letter and symbol

float() change number to be decimal number

len() the length of the string

LOL there no such thing as note

Math

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

LOL

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)
```

LOL

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)
```

Print Name

```
name = "tim GIRARD" print (name.upper()) →
TIM GIRARD print (name.lower()) → tim girard
print (name.capitalize()) → Tim girard print
(name.title()) → Tim Girard
```

LOL

apichat

Variable Hold a value and can be change

string a list of character such as number letter and symbol

Syntax Grammar and structure of language

Integer counting number

number

float the number in decimal

number

modulo find the remainder

LOL

Addition and multiplication and Exponent

string + string
Combine together

string + number
CRASH!

number + number
Addition (Math)

string * number
Combine that string

string* string
CRASH!

number * number
Multiply (Math)

string ** string
CRASH!

number ** number
Exponent (Math)

string ** number
CRASH!

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 l l o
```

sort of 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)
```

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teaw cheat Example

print(2) integer

Print(2.5) floating point

Print (Hello) string

print(mystr) variable

LOL

Naming Covention

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

LOL

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)
```

LOL

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)
```

LOL

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
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By **patter123**

cheatography.com/patter123/

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