## Python Ratchadarin Cheat Sheet

by ratchanew via cheatography.com/25760/cs/6889/

| Terms/Functions or Definition |  |
| :---: | :---: |
| Int (Integers) | A thing complete in itself |
| Variable | Something that can be change |
| Elif | Else/lf |
| Float | Number including all the decimals |
| mynum\%2 | What is the remainder when dividing by 2 |
| ** | Square (the number) |
| == | Equal to... |
| != | NOT equal to... |
| Decimals in Python... | Any decimal in python, it will get rid of all except for the 'floats' command |
| " " | Anything puts under the quotes, will turn into 'INTEGERS' |
| len | length (e.g. length of words) |
| str | String |
| String | text you want to display to someone, or "export" out of the program you are writing |
| List | Contains many words |
| Input | Allow the user to type in/input something |
| \# | Comments only (it does not interfered or have any affect with the commands in the programs) |

## 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)

## Covert Decimal 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)

| Multiplication and Exponents |  |
| :---: | :---: |
| string * number | Combine that string |
| string * string | Crash |
| number * number | Math - MULTIPLY |
| string ** string | Crash |
| number ** number | Math - EXPONENT |
| string ** number | Crash |
| Volcabuary |  |
| String ("U | A list of character such as number, letter and symbols ("Under quotes" |
| Variable Hold | Hold a value and can be change |
| Integer <br> Number | Whole number (Can be positive or negative) |
| Floating <br> Point | The number with decimals |
| Syntax Gr | Grammar/Structure of Language |
| Modulo Fin | Find the reminder |
| Boolean True | 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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Published 15th February, 2016.
Last updated 10th February, 2016. Page 1 of 1 .

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