

Cheat Sheet by juicyyy

`print` show information that you want on
`()` screen

`input()` Gain information from user

`str()` A list of number, letter and symbols

`len()` The length of the string

`float()` Change number to be decimal number

`int()` Change number to be number integer

Cheat Sheet by juicyyy

`==` equal to

`!=` no equal to

`<` less than

`>` more than

`<=` less than or equal to

`>=` more than or equal to

`%` modulo, find the remainder

Cheat Sheet by juicyyy (Combine 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)
```

Cheat Sheet by juicyyy (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)
```

Cheat Sheet by juicyyy (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
```

```
print (int(1.5)) → 1
```

```
print (int("2")) → 2
```

```
print (float(1)) → 1.0 anything to a float
```

Modulo/Remainder %

```
print (4%2) → 0
```

```
print (30%7) → 2
```

Cheat Sheet by juicyyy

Variable Hold a value and can be change

String A list of character such as number, letter and symbols

Integer whole number/counting number
Number

Float The number in decimal
Number

Syntax Grammar/Structure of language

Modulo Find the remainder



Cheat Sheet by juicyy (cont)

Boolean True/False

Cheat Sheet by juicyy

string+number Combine together

string+number Crash!

number+number Addition (Math)

Cheat Sheet by juicyy (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

Cheat Sheet by juicyy (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
```

Cheat Sheet by juicyy (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)
```

Cheat Sheet by juicyy

string*number Combine that string

string*string Crash!

number*number Multiply (Math)

string**string Crash!

number**number Exponent (Math)

string**number Crash!

Cheat Sheet by juicyy (Reverse)

```
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)
```

Cheat Sheet by juicyy (Countdown)

```
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)
```



By **juicyyy**

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Cheat Sheet by juicyyy (Line)

```
myst = "Hello"

letter_num = 0

while letter_num < len(myst):
    print (myst[letter_num])
    letter_num = letter_num + 1
H
e
l
l
o
```



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