Cheat Sheet by juicyy

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 juicyy

==	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 juicyy (Combine to Binaray)

```
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 juicyy (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()
```

Cheat Sheet by juicyy

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
Float Number	The number in decimal
Syntax	Grammar/Structure of language
Modulo	Find the remainder
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
```

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(  " P lease enter a
word")
index = 0
reverse = ' '
while int(index) < len(word):
reverse = word[i  ndex] +
(reverse)
index = int(index) + 1
print ("Re  verse: ", reverse)
```

Cheat Sheet by juicyy (Countdown)

```
user_n umber = input( "What
number do you want to count
down? ")
number = int(us  er _ n umber)
countd  ow n _ string = ' '
while number > 0:
            cou ntd  ow n _ -
number = countd  ow n _ string +
str(nu  mber) + " "
            number = number - 1
            #pr int  (n u mber)
print (count  do w n _s  tring)
```

Cheat Sheet by juicyy (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
```

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

Cheat Sheet by juicyy (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
```

```
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)
```

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