Cheatography

COMP 202 Cheat Sheet by daisz via cheatography.com/163328/cs/34214/

binary numbers

tree branching out jar with balls clock

changing a variables value

x = 5x = x + 1output: x = 6

assigning values to multiple variables

x, y, z =	1, 2, 3
print("x	is", x)
print ("y	is", y)
print ("z	is", z)
x = y = x	= 5
print("x	is", x)
print ("y	is", y)
print ("z	is", z)

this is a shortcut

modulus	
27%10	
returns 7, remainder of clock arithmetic	

properly evaluating equality of floating

```
points
x = 1.1+2.2
epsilon = 0.001
print( abs (x- 3.3 )<e psilon)</pre>
```

algorithm for base conversion

```
procedure baseexpansion(n,b)
q := n
k := 0
while q =! 0
ak := q mod b
q := q/b
k = k+1
return (ak-1...a 1,a0)
```

in general, given a base b and a decimal number n, repeat the following until the number is 0

divide n by b and prepend the remainder of the division

let the new number be n divided by b, rounded down

the life of an object

```
creation
```

manipulation (while it exists) stops existing when there are no more references to it

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swapping values

```
x = 137
y = 42
temp_var = x
x = y
y = temp_var
```

temp_var stores x = 137 then you take x = y, moves both to 42 then define y as temp_var, 137 y = 137 prevents loss of information

input function always returns

a string!

type error

print(int('5')*int('3'))

can't multiply between two strings must cast string as int

object references

look up slides... if a = 5 then a = "cat" value five is garbage collected

= Is not equality, not commutative

x = 77 = x illegal in pyton

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