Tool box

1. Variable:

Interger: the number without decimal point.

Float: if the number has decimal point for instance 1.2 10.0

String: “hello word”

Boolean: True False.

1. List: school bag: can put everything inside.
2. Set: no duplicate stuff inside. hashable
3. Tuples: read only, can not change

2. for loop:

For [element] in [elements]:

XXXXX

For each elements inside the iterable elements do XXXXX one by one.

1. While XXX:

XXXXXX

Do XXXXXX when XXX is true.

While 1:

XXXXX

Everything belong to the for/while loop should type a tab/(4 space) under the for/while loop.

1. If AAA:

XXXX

Elif BBB：

XXXXXX

Else：

XXXXXXX

1. A = Input(“XXXXXXXXXXXxx”)

You can type what you want to the PC

1. Int(“6”) => 6
2. And or not xor:
3. And:

Joshua is a boy and Jack is a boy => if the sentence before and after and is true then the all sentence is true.

Joshua is a boy and Lisa is a boy => if one of the sentence is wrong then the whole sentence is wrong.

Joshua is a girl and Lisa is a boy => whole sentence is wrong.

Conclusion: all the sentence should be true and then the whole sentence is True.

Example:

Tom is a boy and Lisa is a girl and Tim is a girl => False!!

Tom is a boy and Lisa is a girl and Tim is a boy => True!!

1. Or: if one of the sentence is true, the whole sentence is true. If all of the sentence is wrong the whole sentence is wrong.

For instance: Lisa is a boy or Tim is a boy or Marry is a boy => True

For instance: Tim is girl or apple’s shape is a square or Jack is girl => False.

1. Not:

Tim is not a girl => True

Jack is not a boy => False

Code example: if a is not 7 => not => !

If a != 7 => a is not equal to 7

1. XOR: exclusive or => ! or => ^

If something is true: this thing xor a true => False this thing exclusive a false => True

Tim is a boy xor Lisa is a girl => False.

1. Tim is a boy or Lisa is a girl => True
2. !(Tim is a boy or Lisa is a girl) => Tim is a not boy and Lisa is not a girl => False
3. Tim is a girl xor Lisa is a boy =>True

Code example: 1 ^ 1 = 0 1 ^ 0 = 1 0 ^ 0 = 0

Indentation:

Indentation: four space == one TAB => one indentation

For XXX in XXXXX:

AAAFDDDCDDD

Fjhdasklfjdskla

Fads

Fdsafdsafdsfds

Fdasfdsafds

Dsfdsafdsafdsagds

Dfdasfds

ABCD => run for once.

For Abc in range(1,101):

For cbd in range(1,11):

Efg

Lmn

opq

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