

6/1/26 OOP-Python

`print ( item, item, ... )`

↳ prints each item, default is space separated
"string literal" or 'hello', expressions usual way

Specify `sep = " "`, `end = " "`] to change defaults

To read in

`var = input(" ~~~ PROMPT ")`

`num = float(" to read de
input(" to read decimal"))`

`num2 = int(input (" enter int" ))`
input

Operators (Arithmetic)

`+`, `-`, `*` (same)

`/`

real # division

`//`

integer division

`%`

mod

Assignment

Statement

is the

same!

No need to
"declare variables"
just start using
them!

if syntax

if <boolean exp> :

$\left[\begin{array}{l} \text{stmt1} \\ \text{stmt2} \\ \text{stmt3} \end{array} \right]$
stmt4

if true do
stmt1 $\rightarrow$ stmt3

if false
go directly to stmt4
based on indenting
ONLY

Simple boolean exp:

age ≥ 16

comparisons ($>$, $<$, $\geq$, $\leq$,
 $==$, $!=$)

Complex boolean exp

age ≥ 16 and age ≤ 83

gpa ≥ 3.5 or sat ≥ 1300

not (age ≥ 16)

Boolean vars

flag = True

, ~~flag~~ flag = False

All if syntax

if <bool exp 1> :

| stmts A

else :

| stmts B

stmt C

if true, do all of stmts A, then skip to stmt C.

if false, skip stmts A, do all stmts B, go to stmt C.

if <bool exp 1> :

| stmts A

elif <bool exp 2> :

| stmts B

elif <bool exp 3> :

| stmts C

⋮

else :

| stmts

stmt Z

} as many
elif clauses
as you want!

} OPTIONAL!

Find 1st expr that is true,
do THOSE stmts, then skip
to stmt Z.
If all false, do else block.