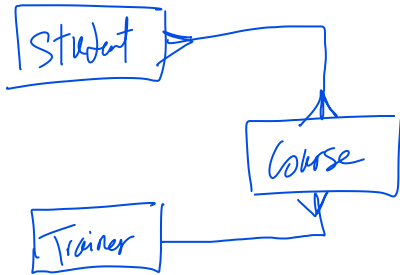
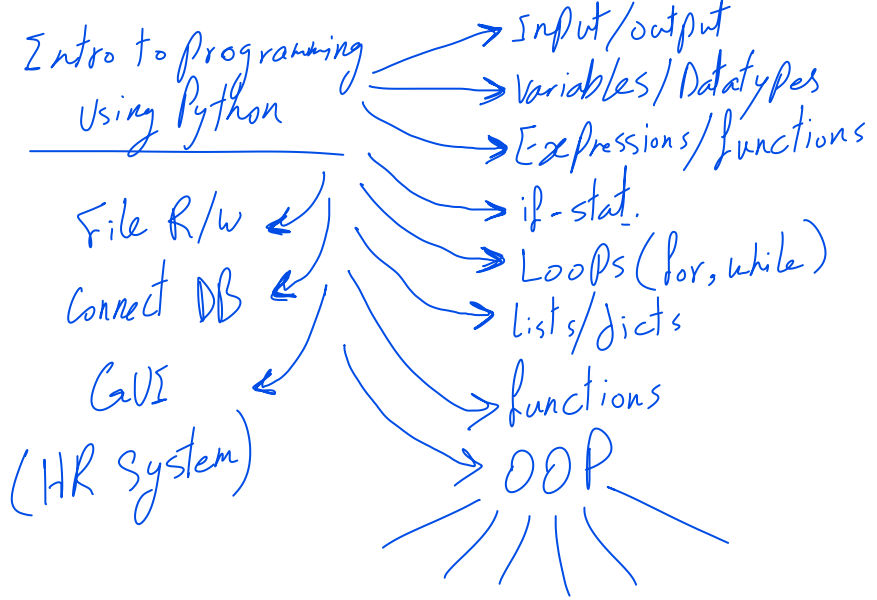


* Web Developer
 * Data Science
 * Network/Security



* Python * Pycharm	<u>Errors</u> * syntax * Runtime * Logic	input storage process output	salary → variable Fooo ← int float str $\text{annual-salary} = \text{salary} * 12$	full-mark <div>25</div>	mark <div>23</div>
				$\text{Pct} = \frac{\text{mark}}{\text{full-mark}} * 100$ <div>92</div>	

Math operators

- ① **
- ② *, /, //, %
- ③ +, -

$$5^2 \Rightarrow 5 * 2 \Rightarrow 25$$

$$5/2 \Rightarrow 2.5 \quad | \quad 5//2 \Rightarrow 2$$

$$3/2 \Rightarrow 1.5 \quad | \quad 3//2 \Rightarrow 1$$

$$7 \% 3 \Rightarrow 1 \quad | \quad 11 \% 3 \Rightarrow 2$$

$$10 \% 2 \Rightarrow 0$$

$$2 + 3 / 3 \quad \text{1} \quad \text{3}$$

$$2 * 3 / 3 \quad \text{6} \quad \text{2}$$

Assignment operator

$$x = 5 \quad \text{2} \quad \text{5}$$

$$x = 3 \quad \text{3}$$

$$x = x + 5 \quad \text{8}$$

$$x += 2 \quad \text{10}$$

$$x *= 3 \quad \text{30}$$

$$x -= 5 \quad \text{25}$$

Common Functions

$$\text{max}(5, 3, 2) \Rightarrow 5$$

$$\text{min}(5, 3, 2) \Rightarrow 2$$

$$\text{round}(19.6) \Rightarrow 20$$

$$\text{round}(19.6666, 2) \Rightarrow 19.67$$

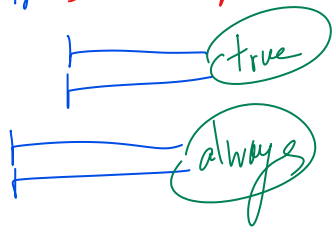
$$\text{randint}(0, 10) \Rightarrow 5$$

weight	height
68	182

$$\text{bmi} = \frac{\text{weight}}{(\text{height}/100)^2}$$

20.52...

if bool-expr:



Relational Operators

>, <, >=, <=

=, !=

$x = 5$ $\frac{x}{5}$

$x == 3$

false

$x != 3$
True

if bool-expr:



else:



if bool-expr:



elif bool-expr:

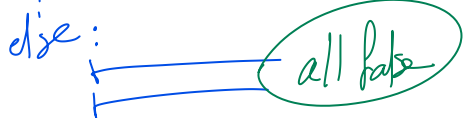


elif bool-expr:



...

else:



$$Pct = \frac{\text{mark}}{\text{full-mark}} \times 100$$

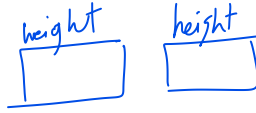
> 85 → Excellent

> 75 → V. Good

> 65 → Good

>= 50 → Pass

Fail



$$bmi = \frac{\text{weight}}{(\text{height} / 100)^2}$$

< 18.5 → Underweight

< 25 → Normal

< 30 → Overweight

Obese

Logical Operators

bool-expr and bool-expr
or

not bool-expr



1-5 → work-day

6, 7 → off-day

else → Invalid



7, 1-4 → work-day

5, 6 → off-day

else → Invalid

What's 5 * 7?

→ 35 → 70
Correct Wrong

randint(0, 10)

