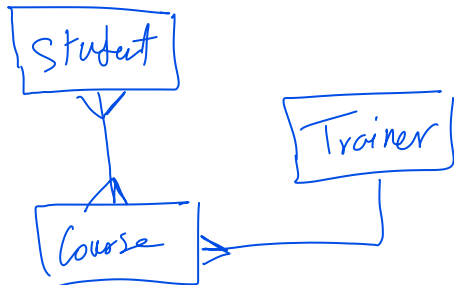
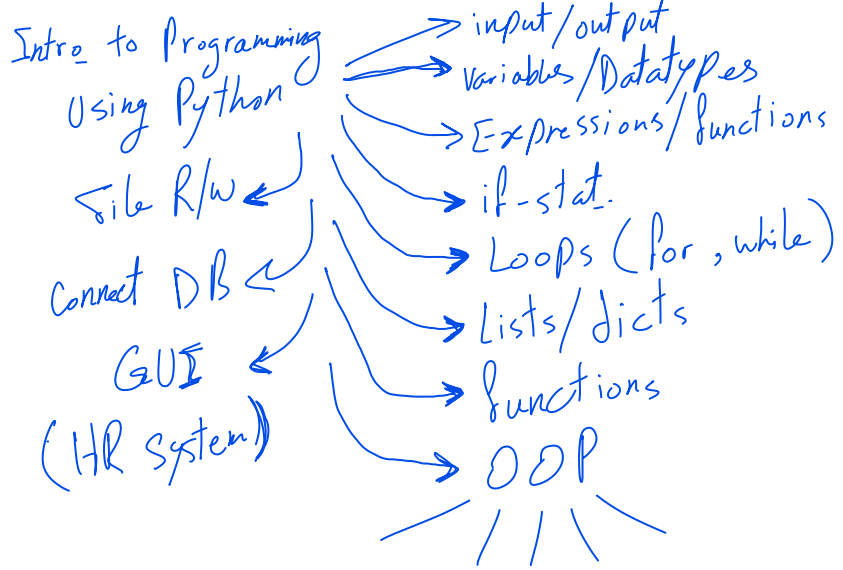


- * web APP
- * Data
- * Network/Security



- * Python 3.9
- * Pycharm

Errors :

- * Syntax
- * Runtime
- * Logic

input
Storage
Process
output

salary → Variable
 1000
 {
 int
 float
 str
 }

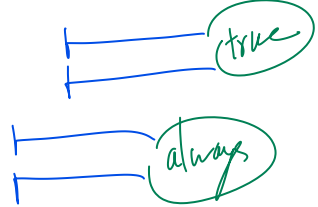
$$\text{annual_salary} = \text{salary} \times 12$$

mark full-mark
 23 25

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

92

if bool-expr:



Relational Operators

>, >=, <, <=

==, !=

x = 5 x
 5

x == 3 x != 3
 False True

if bool-expr:

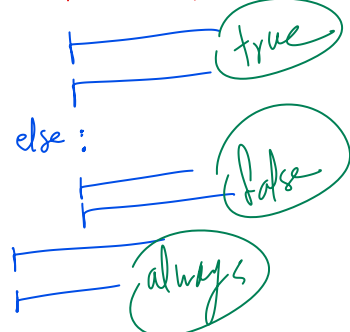
elif bool-expr:

elif bool-expr:

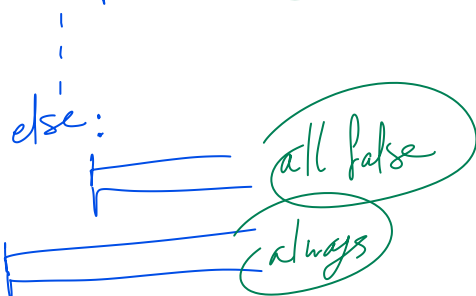
elif bool-expr:

else:

if bool-expr:



elif bool-expr:



mark	full-mark

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

> 85 Excellent
 > 75 V. Good
 > 65 Good
 $>= 50$ Pass
 Fail

weight	height
68	182

$$bmi = \frac{\text{weight}}{(\text{height}/100)^2} \rightarrow 20.52 \dots$$

< 18.5 Underweight
 < 25 Normal ✓
 < 30 Overweight
 obese

Logical Operators

bool-expr ^{or} bool-expr

not bool-expr

day

1-5 \Rightarrow work-day
 6, 7 \Rightarrow off-day
 else \Rightarrow Invalid

day

7, 1-4 \Rightarrow work-day
 5, 6 \Rightarrow off-day
 else \Rightarrow Invalid

What's $3 * 7$?

$\Rightarrow 21$
 \downarrow
 correct

$\Rightarrow 19$
 \downarrow
 wrong

