

if bool-expr:

┌
└ true

┌
└ always

if bool-expr:

┌
└ true

else:
┌
└ false

┌
└ always

Relational Operators

>, >=, <, <=

=, !=

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

$x == 3$

False

$x != 3$

True

if bool-expr:

┌
└ T

elif bool-expr:

┌
└ F, T

elif bool-expr:

┌
└ F, F, T

else:

┌
└ all false

┌
└ always

mark full-mark
┌ ┌
└ └

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

> 85 Excellent

> 75 V. Good

> 65 Good

>= 50 Pass

└ Fail

weight height
┌ ┌
└ └

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

< 18.5 Underweight

< 25 Normal

< 30 Overweight

└ Obese

Logical Operators:

bool-expr and bool-expr
 or

not bool-expr

day
┌
└

1-5 => Work-day

6, 7 => Off-day

else => Invalid

day
┌
└

7, 1-4 => Work-day

5, 6 => Off-day

else => Invalid

