Logical

· Logical operators use to write compound conditions

AND

- · Lets take example cond1 and cond2
- If the cond1 and cond2 both are true than it will return true value

. AND is like multiplication and it is useful to check the range of values

If x >= 50 and x <= 100

 Lets take an example about subjects (maths, phy, and chem) where above 45 will be the passing marks

 AND is use to check this type of conditions where everything must be true (both conditions should be true)

OR

- · If the cond1 or cond2 both are false returns false
- · OR is like addition

· OR is useful to check outside the range

if
$$x \le 50$$
 or $x \ge 100$:

NOT

- · It will negate it
- Returns the opposite value (If its true returns false if its false return true)
- · It is not commonly used