

Logical Operator

Whenever we are required to verify more than one condition altogether and have to generate a common result for them, we use logical operators.

(i) **and** → It returns True if all the conditions are True.

- If any condition is False, then it stops verification of remaining conditions and generates overall result as False.

<u>Conditions</u>			<u>Overall Result</u>
$(41 > 20)$	$(39 < 14)$	$(80 > 60)$	False
True	False		

<u>Conditions</u>			<u>Overall Result</u>
$(90 == 90)$	$(45 > 30)$	$(20 < 80)$	True
True	True	True	

(ii) **or** → It returns False, if all the conditions are False.

- If any condition becomes True, then it stops verification of remaining condition, and generates overall result True.

<u>Conditions</u>			<u>Overall Result</u>
$(51 > 125)$	$(20 > 10)$	$(43 != 23)$	True
False	True		

<u>Conditions</u>			<u>Overall Result</u>
$(83 < 49)$	$(25 > 65)$	$(59 < 10)$	False
False	False	False	