

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** \rightarrow 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>
$(41 > 20)$ and $(39 < 14)$ and $(80 > 60)$ True False	False
$(90 == 90)$ and $(45 > 30)$ and $(20 < 80)$ True True True	True

- (ii) **or** \rightarrow 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>
$(51 > 125)$ or $(20 > 10)$ or $(43 != 23)$ False True	True
$(83 < 49)$ or $(25 > 65)$ or $(59 < 10)$ False False False	False