Statement connective Logical connective Operator Asymbol or word Connecting 2 statements

Next important concept is: Statement connective

Also known as Logical Connective

Also known as logical operator

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= A symbol or word that connects two or more statements.

The resulting expression is also a statement.

Thus, compound statements are two or more statements connected by logical connectives.

So, in the example given below:

R = All men are mortal AND all women are mortal

R is a compound statement.

R contains two simple statements, (i) All men are mortal and (ii) all women are mortal.

The two statements are connected with the logical/statement connective/operator: AND

Compound statement does not have to have ONLY two simple statement.

Z = EITHER all men are mortals AND all women are mortals OR all men are immortals AND all women are immortals.

Here putting the brackets is important.

Z = EITHER (all men are mortals AND all women are mortals) OR (all men are immortals AND all women are immortals).

Z = either (M and W) OR (Mi and Wi)

In simple terms, if one sentence contains two or more statements joined with logical connective, we call that one sentence 'a compound statement'.

	2 types:
	2 types: (1) Truth functional (2) Non-bluth functional
	(2) Non-beth hashard
	(2) Work- waive functional
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	Touth value depends entirely on the truth value of Component Statement
	J Component Statement
	made what simples statements which a cuch hours
	made upof simple statements which each have a tauth value
	Cath Value
	If you replace one simpler statement with another simpler statement
	with the same truth value, the truth value of the truth-func. compound
	statement does not change.
	y a ondon is orpital of the
	Ri New Delhi is capital of India
	R: New Delhi is capital of India 8: Dhaka is the capital of Banpladuh
	$P = \emptyset$ and $\emptyset$
	Pigtwe, if you replace either or both of & R with another Statement that is true
	with another statement that is true
	Pranesh Bhargava 10:47 AM
	@POOSARLA DIVAKAR: "Is there any difference
	between statement and proposition
	And what's difference between sentence and
	compund statement"
	The terms statements and propositions are used
	interchangeabley.
	Pranesh Bhargava 10:49 AM
	Propositions are always single and simple
	statements.