

Std ID: 1705078

Chapter : 1 Section : 1

48. Is the assertion "This statement is false" a proposition?

Solⁿ:

No, the assertion "This statement is false" is not a proposition because it is ambiguous. A fallacy lies in it.

The statement denotes itself as false, but for it to be false, the statement needs to be true, because the opposite condition or negation of 'false' is 'true'. But that directly contradicts the statement. A proposition must need to be either true

or false. There is no in between. A statement cannot be true & false at the same time. Because this statement yields no biquous true or false value, it is correct to say that the assertion "This statement is false" is not a proposition.