

Re: predicate in a predicate

Source: <http://sci.tech-archive.net/Archive/sci.logic/2007-12/msg00197.html>

- *From:* William Elliot <marsh@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 6 Dec 2007 03:46:51 -0800
-

On Thu, 6 Dec 2007, Keenlearner wrote:

I was wondering how should I represent these two sentences in First Order Logic Form

John lives in Bali
John lives with Marry

live_in(John , Bali)
live_with(John, Marry)

or Can I have a predicate in the predicate,

live(John, in(Bali))
live(John, with(Marry))

No.

As you can see that the second arguments of "live" predicate can either refer to the person or place. But can we use the same predicate "live" with the second argument refer to person and place ? Thank you.

It refers to a proposition. Thus you have hybrid propositional constant, live(x,P) which isn't FOL.

.