"11 e4 e481 vanges at an kagaza

QUESTION-45



- a) Top-down (SLD) desiration of the overy accepted (chois) applied to the knowledge base:
 - 1. Guery accepted (chois)
 - 2. Rule: arrepted (student) 1- seturing (student) 1 good standing (student) 1
 - substituting student with chais in The xule, we get:

 seturning (chais) 1 goodstanding (chais) 1 clear Balance (chais)
 - > We need to find suppost for These Three sub-goals

 3. Rule: Qulified (Student) <- legacystudent (student)
 - assisted (chois)
 - 4. Rule: legacy student (Student) c-child (Student) pasent) 1980 duate (Pasent)
 -) Substituting student with chois, and Pasent-with sam in the rule
 we get

regaryStudent (chois) -- child (chois, sam) n graduate (sam)

- 5. Fact: child (chois, sam)
- 6. fact: goodvate (sam)
- J. we have found supposed for all the sub goals of the original rule so, chois qualified
- 8. Rule: qualified (Student) c-highsat (Student) 1 good Hs (Student)

 substituting Student with chois in the bule

 Quified (Chois) (- highsat (chois) 1 good Hs (chois)
 - -) we need to find suppost for two sub goals
- 9. Fact: goodHs (chois)
- 10. We have found suppost for all The sub-goals of The original rule so, thris is qualified
- 11. Rule: accepted (Student) -- appromptete (Student) Aqualified (Student)
 -1 substituting student with chais in The oute
 accepted (chais) -- appromptete (chais) 1911: Fied (chais)
- 12: fact: all complete (chois)
- 13: we already established that this is qualified it stip 10

14. we have found suppost for all The subsacris of the oxis: and sure so, this is accepted

- b) one of the failing tul-down (SLD) Devivations of the Quees accepted (1908) applied to the KB
 - 1. avery: accepted (laura)
 - 2. Rule: accepted (student) (-- returning (student) agoodstanding (student)
 Acteur Bajonce (student)

-150bstituling student with lauxa in The XUIE

XELOXATING (LAUXA) A GOODST CONDING (LAUXA) ACTECN BOLLONE (LAUXA)

WE need to find support for These Three sub-goods

3. fact: returning (laura)

- 4. we need to find support for the remaining two sub-goals, goodslanding (lauxa), and clear balance (lauxa)
- The tol-down desivation for accepted (rausa) fails