Knowledge-based entailment:-Code:-

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Q	Entailment job Pege
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	C Control Sphilips of the Control of
_	Inputs:
	knowledge have (
(5)	Russy Statement (set of logical rules)
	factly Haltmerel . Mad a standard
	(-1/) 7018
	Breps:
	Creps:- , was april and make
	1.) Neget to a solution
	The grange of the property
(([many)	1.) Negote the query : Obtain the negociai.
(10 41	
	2.) Compine with the
	2.) Combine with knowledge base.
	3.) Check Cates frabely: to check if the negation with ks
_	to check if the negation with ke
	(191) West Satisfies the said
	(results satisfing the rules
	(4·) A. (4·)
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100	if conquictor is not sallyiable > True
2 proced	if conquiction is soligiable -> thre.
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XX.)691.	entify (() charge +) } m : and place of 1
	1 possible and the second seco
	, goden , accordingly the control of the control
	7

	code:
The same	From sympy import symbols
	1 d can att kunst
	P = symbols ('P')
	grand ('gr')
	A CONTRACTOR OF THE PROPERTY O
	V = Symbols (seine (9, 9), implies (4)
	V = Symbols ('(')) provedge base = And (implies e (p, a), implies (a, r) Not (r))
	Not (r)
	relan knowledge base.
	def query - estails (knowledgebase, query)
	and query - extens (the first of the provided should
-	entailmin = saluspator (And (knowledgebase,
	rete_ not entailmed to said weed
	if - name_ = "- main" sales grown (. E
. 182	Kb = create throwledge base ()
- 6	muny syntols ('P')
-	cresultoff = query- entails (Kb, query)
	print (" knowledge Base ", Kb)
met !	prid (" query , query)
	pril (" Dary entails knowledge base", resul
	(me of animistrating base , man
	- Output:-
	11
-	Knowledgebase: ~r & (Inpluis (P, W) of (Inplus)
	Dury: P
	Query entails knowledgebase, False.
	y , and ,

output:-

```
main.py
          entailment = satisfiable(And(knowledge base, Not(query)))
          # If there is no satisfying assignment, then the query is entailed
          return not entailment
  25 if __name__ == "__main__":
26 # Create the knowledge base
          kb = create_knowledge_base()
          query = symbols('p')
          result = query_entails(kb, query)
          print("Knowledge Base:", kb)
          print("Query:", query)
          print("Query entails Knowledge Base:", result)
v 📝 🌣 😘
Knowledge Base: \sim r & (Implies(p, q)) & (Implies(q, r))
Query: p
Query entails Knowledge Base: False
...Program finished with exit code 0
Press ENTER to exit console.
```