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- Propositions; Syntax, Semantics
- Entailment: $\alpha \models \beta$ iff $M(\alpha) \subseteq M(\beta)$
- Model checking for www find we with the wift with the wift with the wift with the wift with the weaking of the weaking
- Inference: $\alpha \mid_{\exists} \beta$ = sentence β can be derived from α (sound?, complete?)
- Resolution: show KB_∧¬α unsatisfiable
- Horn clauses; Back/Forward Chaining

- illi illi declarative
- iz in in a partial/cis<u>umctive/negatec</u> Information
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- <u>very limited expressive power</u>

····· facts

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- ConstantsKingJohn, 2, NUS,...
- Predicates Assignment Project Exam Help
- Functions Sqrt, LeftLegOf,...
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 Variables x, y, a, b,...
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 Connectives ¬, ⇒, ∧, ∨, ⇔

 \forall , \exists

- Equality
- Quantifiers

 $\frac{\mathsf{preclicate}\;(\mathsf{lenm}_n,\ldots,\mathsf{term}_n)}{\mathsf{term}_n = \mathsf{term}_2}$

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Term term.... https://powcoder.com

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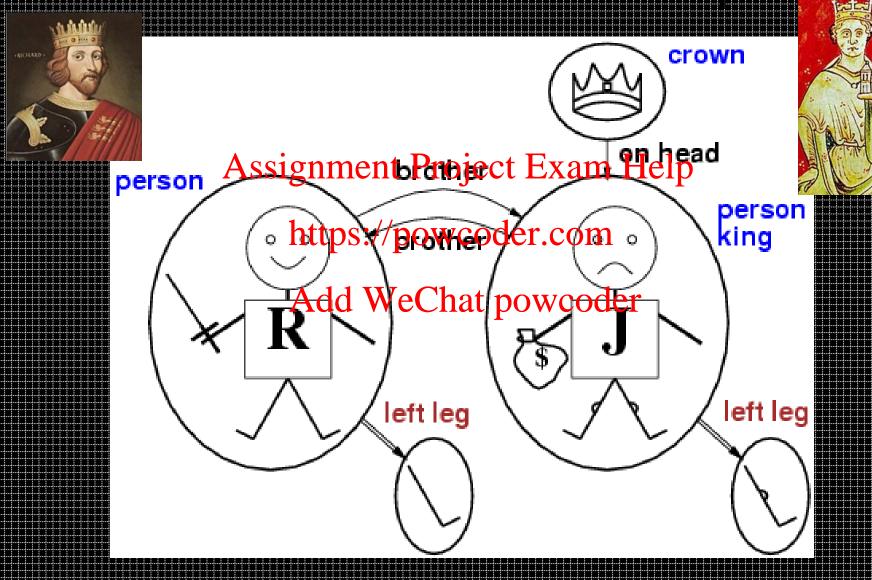
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- interpretation model
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- constant symbols Add Weighat powcoder
 predicate symbols relations
 function symbols functional relations
- objects



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instantiations conjunction

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At(KingJohn,Fordham) ⇒ Smart(KingJohn, Fordham) ⇒ Smart(Richaed)

At(Fordham,Fordham) ⇒ Smart(Fordh

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instantiations disjunction

- At(KingJohn,Fordham) ^ Smart(KingJohn)
- v At(Richard, Fordham) ∧ Smart(Richard)
- v At(Fordham,Fordham) ^ Smart(Fordham)
- V ..

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```
∀ ∀x ∀y is the same as
                                 A^{\lambda}A^{\lambda}
∀ ∃x ∃y is the same as
                                 XE VE
```

```
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3x y is not the same as yy 3x
```

- ∃x ∀y Loves(x, y)ttps://powcoder.com- "There is a person who loves everyone in the world"
- ∀ y∃x Loves(x,yAdd WeChat powcoder
 - "Everyone in the world is loved by at least one person"

- 15.77. – 16.77., iš 111.5 t.11.62. iš jūven interpretation i and only if 16.77., and 16.77., refer to the same doject Assignment Project Exam Help

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```
Tell(KB, Percept([Smell,Breeze,None],5))

Ask(KB, Ja BastAction(a5)ent Project Example 1
```

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substitution

```
S = Smarter(x,y)

\sigma = \{x/Hillary,y/Bill\}

S\sigma = Smarter(Hillary,Bill)
```

Perception

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Reflex https://powcoder.com

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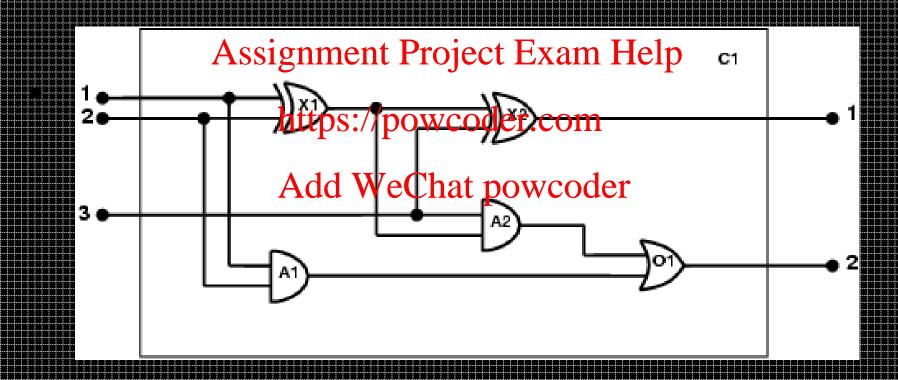
```
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```

- Diagnostic rule---infer cause from effect
 ∀s Breezy(s) ⇒ ∃r Adjacent(r,s) ∧ Pit(r)
- Causal rule---infer effect from cause
 ∀r Pit(r) ⇒ [∀s Adjacent(r,s) ⇒ Breezy(s)]

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