Access Control and Privacy Policies (10)

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Slides: KEATS (also homework is there)

Revision: Proofs

goal

$$\frac{}{\vdash}\ \text{axiom}$$

$$\frac{\vdash}{\vdash}$$

$$\frac{\vdash \quad \vdash}{\vdash}$$

start

Proof Example Proof

$$\frac{?}{P \text{ says } F_1 \wedge Q \text{ says } F_2 \vdash Q \text{ says } F_2 \wedge P \text{ says } F_1}$$

Proof Example Proof

We have (by axiom)

(1) $P \text{ says } F_1 \wedge Q \text{ says } F_2 \vdash P \text{ says } F_1 \wedge Q \text{ says } F_2$

Fom (1) we get

(2) $P \text{ says } F_1 \wedge Q \text{ says } F_2 \vdash P \text{ says } F_1$
(3) $P \text{ says } F_1 \wedge Q \text{ says } F_2 \vdash Q \text{ says } F_2$

Fom (3) and (2) we get

$$P \text{ says } F_1 \wedge Q \text{ says } F_2 \vdash Q \text{ says } F_2 \wedge P \text{ says } F_1$$

Done.