**FORMAL METHOD IN SOFTWARE  
 ENGINEERING**



**ASSIGNMENT # 02**

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 “if you get more doubles than any other player you will lose, or that if you lose you must have bought the most properties,”

Answer:

**Propositional Logic**

where

P is the statement “you get more doubles than any other player,”

Q is the statement “you will lose,”

R is the statement “you must have bought the most properties.”

Represent the statement in symbols as (P→Q) ∨ (Q→R),(P→Q)∨(Q→R),

**predicate logic**

anyone gets more doubles than any other player you will lose or any one if you lose you must have bought the most properties,”

Answer:

P is the statement “you get more doubles than any other player,”

Q is the statement “you will lose,”

R is the statement “you must have bought the most properties.”

**∃x** (P(x)→Q(x)) ∨ (Q(x)→R(x))