Q:- Propositional logic Unit is a proposition ? — Abdul Basit.

Q:- $x+y=2$ is not a proposition. — Jawad Ahmad.

$x, y = ?$

What time is it?

How are you feeling?

Q:- find the negation of "It is not raining". — Taha.

Let p = "It is raining".

Give statement = $\neg p$ = "It is not raing".

Answer:- $\neg(\neg p) = p$ $\therefore \neg(\neg p) = p$.

$= $ "It is raining"

not and or implies.

Q:- Find negation of $2+3=5$ — Awais.

Let p = $2+3=5$

Ans:- $\neg p$ = $2+3 \neq 5$.

$\neg(=) = \neq$

$\neg(\geq) = <$

$\neg(>) = \leq$

$\neg(<) = \geq$

$\neg(\leq) = >$

Q:- Shakeel has more than 100 GiB free Disk Space.

Let p = Shakeel has more than 100 GiB free disk space.

$\neg p$ = Shakeel has less than or equal

TP 2 Shakeel has less than or equal to 100 GB free disk space.

Q It is Friday. It is raining.

Find Disjunction.

p: It is Friday.

q: It is raining.

$p \vee q$: It is Friday. OR It is raining.

V or

V : OR operator in DLD.

Q:- $3+4=7$ $5+6=11$.

let p: $3+4=7$

q: $5+6=11$

$p \vee q$: $(3+4=7) \vee (5+6=11)$

Q Why propositional logic. ?

Computers → human problems.

Structures. human language.

1) Sets
2) Matrices
3) Graphs
4) Trees.

Representation.

propositional logic.

Q:- Why Different connectives.?

Ans:- To have more meaningful Expressions.

Q:- $x+1=3$. Shahid Ali

let $\underbrace{P_2}$ $\underbrace{x+1=3}$. $x=4$

Variables. ?

P_2 $4+1=3$

P_2 F.

Difference btw P and x:- T x. F → Values Nature

T F

Assignment:- Take lecture 3,4.

Weekend.

Ex 17-21.

60 Questions.

Do buy the book.

Problem Solving Strategy.

1). lectures.
2) Notes.
3) Book
4) Internet
5) friends
6) Teacher.