Tutorial-5

	The state of the s
1	let's consider a prepositional language where
	p means "Paola is happy".
	9 means "Parla paints a picture", &
	8 means "Renzo is happy"
	tormalize the following sentences:
	Paola is happy & paints a picture, then
	the site mappy.
	prd -> ~
	(ii) "If Pada is happy, then she points a picturi".
	(iii) "Paola is happy only if she paints a picture"
	p→q.
2.	Let's consider a preparational laws
	p means "a is a prime number"
	q means "x is a odd".
	Formalize the following sentence.
	(i) I being prime is a sufficient condition for
	n being odd'' p > 9.
	b->d.
3.	La A = "Alda is Thaline" a pala
0.	Let A = "Aldo is Italian" & B = "Bob is English". Formalize the following sentences:
	(i) "Aldo un't Italian"
	NA.
	(ii) "Aldo is Italian while Bob is English".
	AAB.
260	(iii) If Aldo is Italian then Bob is not English.
383	(iv) "Abo is Italian or of Aldo isn't Italian then
	Bob is English"

AV(~A+B) = AV(AVB) = (AVB).

"Either Aldo is Italian & Bob is English or meither Aldo is Italian mor Bob is English" (A1B) V (NANNB).

A = "Angelo comes to party", B = "Bruno comes to party", C = "Carlo comes to party", D - " Davide comes to party".

Formalize the following sentences:

(i) "If David comes to party then Bruno & carlo comes too".

D-KBAC)

(ii) "Carlo comes to party only if Angelo & Bruno do not come".

C+(NA ANB)

comes & Angelo comes ".

Der (CANA).

(iv) "If Davide comes to party, provided that of party provided that of party provided that of that of D > (NC > A).

cv)" (and comes to party provided that Davide doesn't come, but, if David comes, then Bruno doesn't come".

(c + ND) 1 (D + NB).

(vi) "A necessary condition for Angelo comming to the party, is that, if Bruno & carlo aren't comming, David comes".

A -> (KBANO -D)

(vii) "Angelo, Bouno & carlo comes to party if & exanly of Dervide doesn't come, but, if neither Angelo nor Bruno comes, then David comes only if



Carlo comes". (SA) ((AABNO) (NAANB) - (D+C)).

5. Socrate says:

"It I am guilty, I must be punished; I'am quilty. Thus I must be punished!

It the argument logically correct? Thus I must be prinished!

Jes the argument is logically correct let p means "I am guilty" & 9 means "I must be punished".

ie (p+q) Ap (Modus ponens).