	Name: Krishanu Dey	Date -
	Reg. no.: 2021CA055	Page No.
	,	ogical Thought
	Foundation of L Assignmen	+-1
		The saller of the
1) a	Not a proposition	
6)	Proposition (False)	PLVA () ()
(2)	Proposition (Tous)	7 <- 9 (1)
	Not a proposition	74-(9/19)6
	Not a proposition	
	Not a proposition	and 2 (2)
	Not a proposition	2107 (d)
b)	Not a proposition	VIO File
(i	Proposition (True) Not a propo	sition
	Man Hadta (V)	as mindred (a) (a)
2	a) 7.11, 13 ± 999	The test of the last
	b) 125 is not a perfect cube.	
	c) 2×10 ≠ 20	00 11 15×3 (a)
4	The state of the s	L Test L
3	a) If I bought a lottery ticket to	is week then I would have
	a) If I bought a lottery ticket to	e lat (all
NA		4,000
	b) If and only if I bought a lottery million dollar jackpot	-licket I sum the
31.11	million dollar jackast	
		this week
C) If I didn't bought a latterer te	itet then I haven't won
	the million dollar jackpet.	A Committee of the comm
1		N W G
1	1) 9 hourst boundt a letter to 1	1 41: 1 1 9 1 1
/	even the million dollar jackpet.	Teacher's Signature

e) I havn't bought a lettery ticket this week are either I bought a lettery ticket this week and I won the million dellar jackpal. 4) a) $r \wedge \neg q$ b) $p \rightarrow r$ c) $(p \wedge q) \rightarrow r$ 5) a) False
c) False a) Inclusive on (V), as the statement intended experience with C++ on favor on having both would be much better. b) Exclusive or as the lunch gets to choose only one of these starter:

c) Inclusive or as to enter the country you need a perspect or a voter registration could or may be both. 7) a) If you wish to get promoted then you must wash the b) If willy cheate, then he gets caught. c) If you keep your textbook, then it will be a useful reference in your future courses.

8. a) Converse - I will stay at home only if it snows tonight

Contrapositive - If I down't stay at home, then it will not

have snowed today:

inverse - If it does not snow today, then I will not

stay at home. b) converse - of 2 go to the beach then it's a sunny summer contrapositive - of I don't go to the beach then it isn't a sunny summer day.

inverse - If it isn't a sunny summer day, then
I don't go to the beach. contrapositive - 9 2 don't sleep until noon, then I stay up late.

stay up late.

inverse - 9 2 don't stay up late then I don't sleep

until noon. g) a) 11000 A (01011 V 11011) Sol. 01011 V 11011 11000 1 11011 :. 11000 A (01011 V 11011) = 11000

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	Page No.							
11.1	b) (01010 (+) 11011) (+) 01000							
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6)	IP <> 2) <> (r <	>s)
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c) (P (P (P) 79)

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Sed.	P	2	79	P#9	P + 79	(P⊕q) N (P⊕ ¬q)		
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11) a) y x+2=3 then n:= x+1 Sol- The condition n+2=3 is true for (n=1)=> n=n+1 => n=1+1 => n=2Hence final value of n will be 2b) if (2n+3=5) AND (3n+4=7) then n:=n+1 Sol- The condition 2x+3=5 is true for (x=1)and also the condition (3x+4=7) is true for (n=1)=) x=n+1= x=1+1= x=2Hence final value of x will be x=1c) y x < 2 then n: ** +1 Sol. The condition x < 2 is true, for (x = 1)=) x = x + 1 = x = 1 + 1 = x = 2Hence final value of x will be x = 2(PUL (BU) V (BOB) AL (BU) AL A BU