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		Programme Company		described to	
	NAME: Mounal Sanjay Rane.				
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	Batch: 13				
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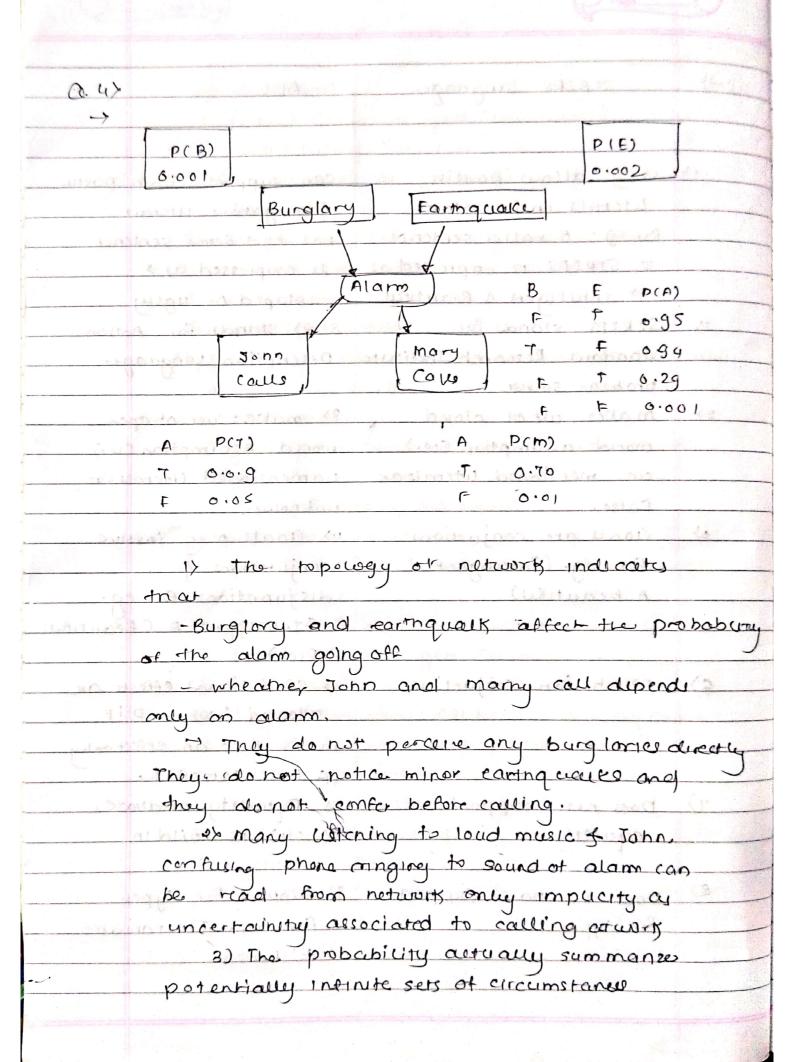
ASSIGNMENT:2

Q1>	
* 1	Example 1
	The second second design of the second secon
->	A) Facts into Fol
	1> J XOU C
	1) J XAY (child (x), witch(y) -> secs (x,y))
	They stary cat) A how
	Cyl painted hart
	3) Ey ((sees (x)))
	Country of Country of Country (1)
	/10
	Cwiothcus > had cons
	S> Ey (sees (x,y) > how (y, pointed that)
	The transfer of the transfer o
	B) FOL INTO CNF
	1) F x Ay (child (x), witch (y) > sees (x,y)).
	Syl (witch (y) > have (y 1 black bat)
	-> is fy, (witch cy) -> has (y painted shat)
	2) ty (conten (4) > grad (4))
	3) Ex [(som (y) -> bad (y))
	3) Ex [(sees (x14)-> witch (q) > good(y))-> gets (x1ca
	Charles Chandrat
	4) Fy [bad (y) -> has (y) pointed hat)]
	> ~ thy [seen (x14) - has [41 black that)]
	e> sees (xi4)
	, which is seen (MI)
	seen (x, cgood A sew (xibad) I good v bad/y}
	how (U/2)
	seen (x, good) vseen (x, bad) fy/gend v bad &
	12/ black cat v
	pointed hat,?

seen (xigood) vhas (good) seen (xigood) v pointed hat) v gets gets (x and y) (x) candy) gers (x, conoly) gets (x, (and y) 2> 1) #x (boy (x) or gird (x) > child (x) 2) + y(child(y) > gets (y, doll) or gets (y, troup) or gets (y, coal) 3) # w(boy(w) -> 1 gets (w) dow) 4) for all z (child (z) and bad (z)) -> gets (z, coal) ty child (y) → lyets cyrtrain 5) child (ram) +> gets: (ram, coal) In prove (child(ram) -> bad (ram)) CNF clauses. 1) 1 boy (X) or child (X) girl (x) or child (x) 2) . I child (4) or gets cyidoll) or gets (4) torain) or gets (4100al) 3) I boy (w) or I gets (widoll) 4) I child (2) or I bad (2) or gets (2101) 5) i child cram) -> gets cram, coal) 6) bad cram? have and the sold consister of Rosoleution. 13 - 1 child (2) or ! bad (2) or get 121 coals

	6) bad (rem)
	7) [child (ram) or gets (ram, coal)
	Substituting 2 by ram.
	1) (a) ! boy(x) or child(x)
	boy (ram)
	child reim (substituting x by nam)
	7) I child (ram) or gets (ram, coal)
	8) child (ram)
	9) gets (ram; coal)
Le (Mars	2) 1 child (4) cor gets (4 i dou) or gets (4 i train)
	or gets cyrcoal)
	8> child ('ram)
Char.	10) act cram law in
	10) gets (ram, doll) or gets (ram, troub) or
	gets (ram, coal)
	(substituting y by ram)
	9) gets (ram, coal)
	10) gets (ram, doil) or gets (ram, train) or gets
	(ram, coal)
	11) gets (namidall) or gets cramicoal)
	3> 1 boy (w) or 1 gets (widoll)
	5) boy (ram)
	12) get (ram ideal) (substituting w by ram)
	gets (ramidoll) or gets (ram, train)
	12) gets (ram, does)
	13) gets (ram, coal)
	Ex Kax get Cram, coal)
	13) gets (ram, cool)
	Hence, bad (ram) is proved.
	can Heaten an G
	10 S (Q) 1 possess to be a contract of

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ره ، مرک	STRIPS language.	ADL
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	Brog. A valld sentence	For eg -> Earns sentence
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	Sagarani unantan hilia.	P! Person
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entince acpresents enchaustiv go of cases as variable

(5) All reinable are Boolean

T) In general, ateusle for aboutern ramable with the parents contrains 25 independing specific probabilities

alstoribution can be calculated from information in Baijessian network.

S(XI) denotes the specific values of the variable parents (XI)

- p (jamagaubaue)

= P (jla) p(mia) p(aus home) p(ab) e (coe)

- 0.09 x 0.07 x 0.00 | x 0.999 x 0. 990

= 6-000628

+ Bayesian Network

