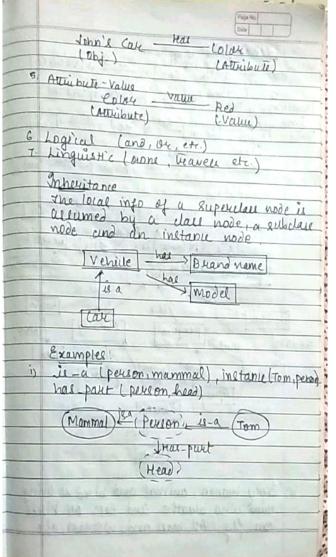
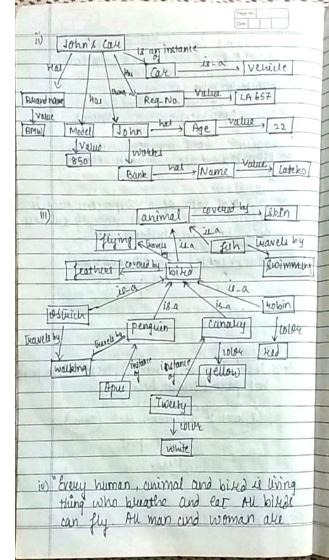
resolve would in a text reflect back to other ideas in the text Ex- House climbed up the hell: It was very steep. It got tisied. (House) 13/8/19 Knowledge Representation

Objective of instant is to feed knowledge instead of data in AT knowledge in an intelligent system's knowledge base Types of knowledge Dellanative knowledge - loncepte, tacte; Objects - Desirabel what 28 known about plot - Include limple statements. - Includes objects as well. ii) Procedural knowledge - Rules, strategies, agendas, phoredures - Desvribre noto a phoblem is solve (11) Kenviste - Rules of Thumb - Describes, Fulle - of - thumb, that gaider
the reasoning process
- lalled shallow knowledge
- Buted on empirical knowledge iv) Mela- knowledge - Knowledge about the other types of knowledge and how to use them -the for enhaning efficiency of phoblem solving. V) Structural - Rule sete, concept relationships, concept to object relationships - Derivines an expect overall mintal model of the problem i) Logical Representations
- Propositional logic - Phidicale logic (Filet order, Higher Mide, Fuzzy logic) ii) Cemantic Data Modele (Surutwal K.) - lemantic Net Conceptual Graphs Production Rules [Photedural K.) -ip ... then wells (& venteral K) in tramel Semantic Nets gnition base human memory with it high no of connections & allowations

Two types of primitive:
. Node: coveruponds to so ou dance.
of obj in the world · Linke: Unidirectional connection between nodes to show relationships Semantic network is a KR schema that captures knowledge at a graph Nodes kepkesent: Links: - "inetanie of" - concepti - Objecte - "io a" - Evente - "has a" Feature - Time Relationehips 1. Clark - superchall Is-a Care Vehille (Superclass) (class) Instance class instance of John's care (instance) (class) Part - Whole Punt of - lare App. (Part) (whole) 4. Object - Attribute





	Frago No.	
	humans who have a los	
_	humane who have two legs fat is an animal & has fux. All animale have thin and can move fixially is an animal who is tall and has long logs.	
	their and can move discould have	
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	V Carrier, Haran, Meaner)	
vi) My case is ton & John's case is green		
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-	repulpts below a supply of the second	

20/8/19 Example tio Phodicate logic (Non binary prodicates Sol: instance (shatukh, man) Replicant N-Place relations (N>3) Evente new 1969 for entire statement Introduce binary predication. Influence in lemantic Net i) Inheritance il Intersection Reality Spleading outivation A 18-0, B out of two nodes R 18-03 C & linding a common or interestion Inheritano. A 18-0, between the Paulitioned new Allow for: · Puppositions are to be made without · Expulsions med must be qualified "Andrew believes Earth is plat" make a sepurate space and connect al a higher - 1 spress level entity to the HOST of the net Steps: i) Cupes a general statement, 615,

ii) make node of an instance of allfact & Every dog has bitten a mail countries SA Ins Dogs Daite mations 51 II-D cours, Ja Laurital to yetting " levery dag has bitten the constable"

SA Joya | Bite | Consta Constable 10mm > 52 30 6 "Every dog has bitten every muil carocier" Bite Mail auxie Horn + 675/

Movantages of Remantix rele = Despite the variety of entities, they can be onown in some semantic network = Related knowledge can be eatily thustern -> knowledge engineer can arbitrarily define the relationship - Influence et limple, natural & efficient Duambacket > No diff. between individual classes -> of multiple inheritance present, possible - only binary relations are easy to expelle > Not very expressive Experts - People was one very familiar with lolving specific types of phoblems. I have domain knowledge) Knowledge-based Ryl Es: handle real-would complex peoblems which need an expect interpretation and solve probleme by using a comp Componenti: Balic: i) UI ii) Knowledge bace iii) gujerence engine

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Reasoning Melline - To memorize the control strategics applied. Interpreter - Inrough UI, interpreter explains weeks questioned our commands a other into generated by expect system. Steps. - Publish identification - Know Loneptaulization - Rule formulation - Rule vellidution 2)