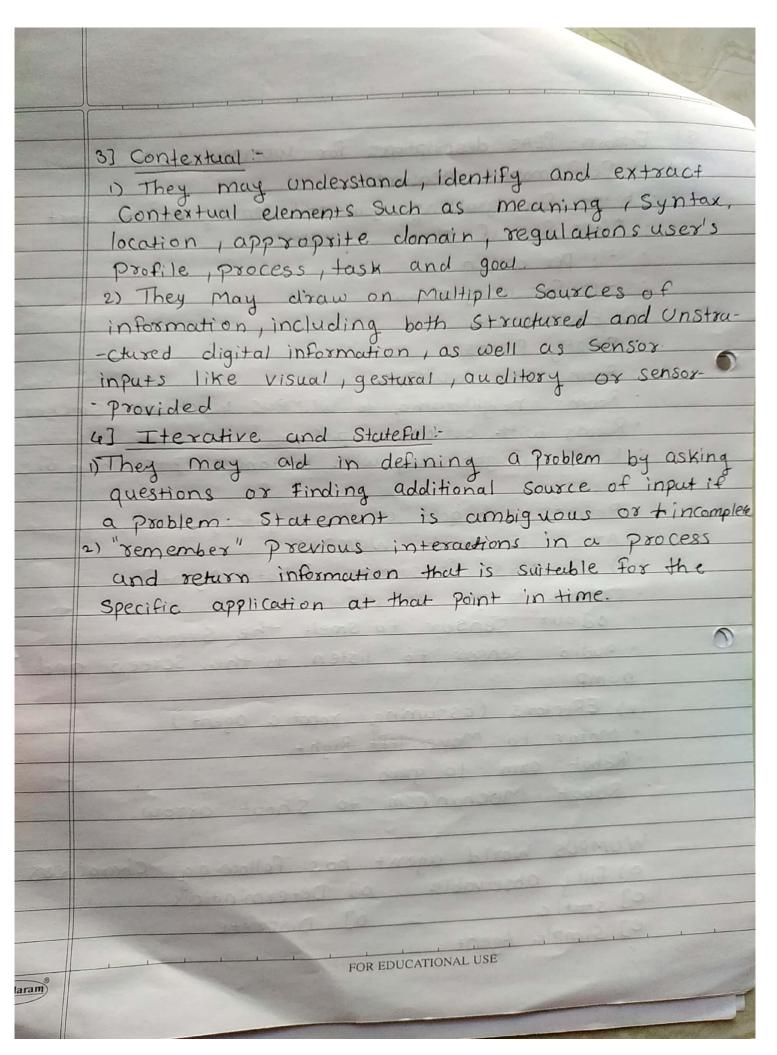
		Assignment	No :- 1 B				
	Name :- Shul	bhangi A	· Kolekar				
	Roll No :- 31						
	Sem / Branch	/ Branch :- VII / IT					
	Batch: I2						
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	Explain PEAS descriptions for wumpux world.  i) Performance measure:
	. + 100 for grabbing goal and coming back to Start.
	· - 1 per action
- 10-2 mg	ii) Environment:
	· Fmaty Rooms
0	· Empty Rooms · Room with Wumpus
	· Rooms neighbouring to WUMPUS which are smeller. · Rooms with bot tomless pits
·	Rooms neighbouring with bottomless pits which are
	breezy.
•	Rooms with gold which is glitery.
	ATTOW to Shoot WUMPUS
ii - e	i) Sensers Cassuming Robotic Agent?
•	Camera to get the view.
	odour sensor to smell the srench.
	Audio sensor to listen to the screen and bump.
lì.	) Erectors (assuming robotic agent)
	Motor to Move left Right
	Robot arm to grab
	Robot Mechanicsm to Shoot arrow.
W	umpus world agent has following Characters.  ) fully Observable b] Determinities
C	static DJ Discrete
le.	1 Simple Agent
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## Explain Various elements of Cognitive system 1) Congnitive Computing is a new type of Computing with the goal of more accurate Models of how the human brain/ Mind Senses / reasons and responds to stimulus. 2) Generally the term Congnitive Computing is used to refer to new hardware and lor software that Mimic the Functioning of the human brain thereby improving human desici decision-making Cognitive Computing applications link data analysis and adaptive page displays. Following are some of the element of Cognitive Systems. 1) Interactive: 1) They may tintresact easily with users so that those users can define their needs comforately. 2) They may also interact with other processors, devices, and Cloud services as well as with People 2) Adaptive: i) They may be engineered to feel on dynamic data in real time 2) They may learn as information changes and as goals and requirements evolve. 3) They may resolve ambigurity and toterate tolerate unpredictability FOR EDUCATIONAL USE

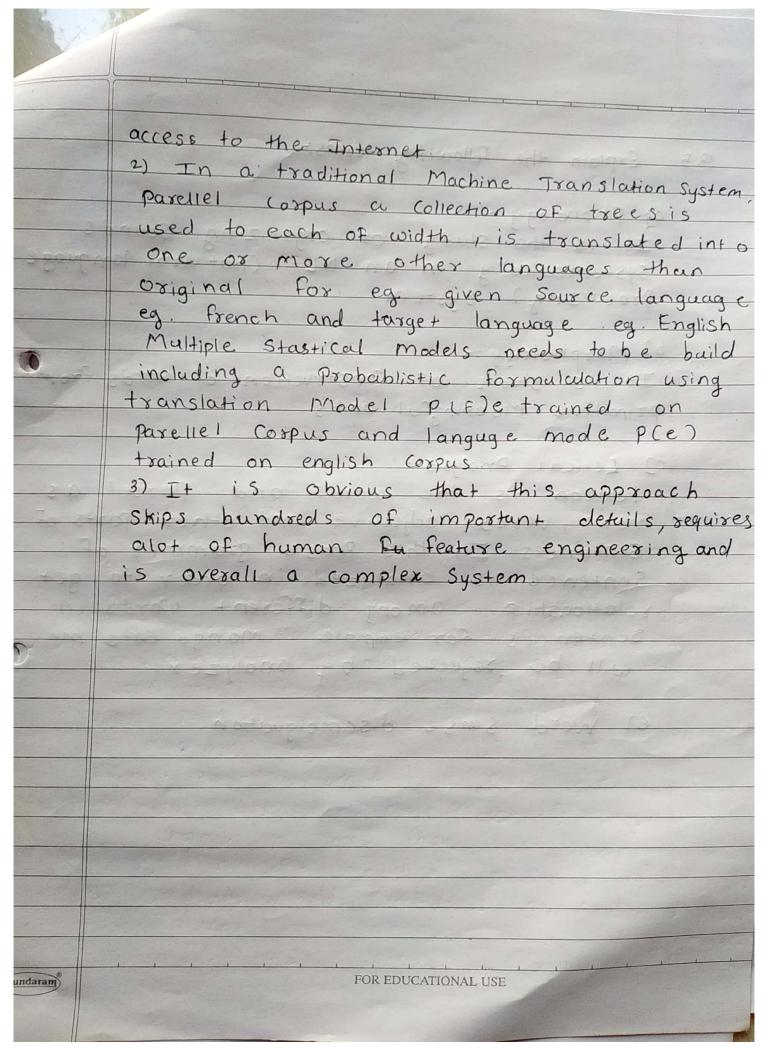
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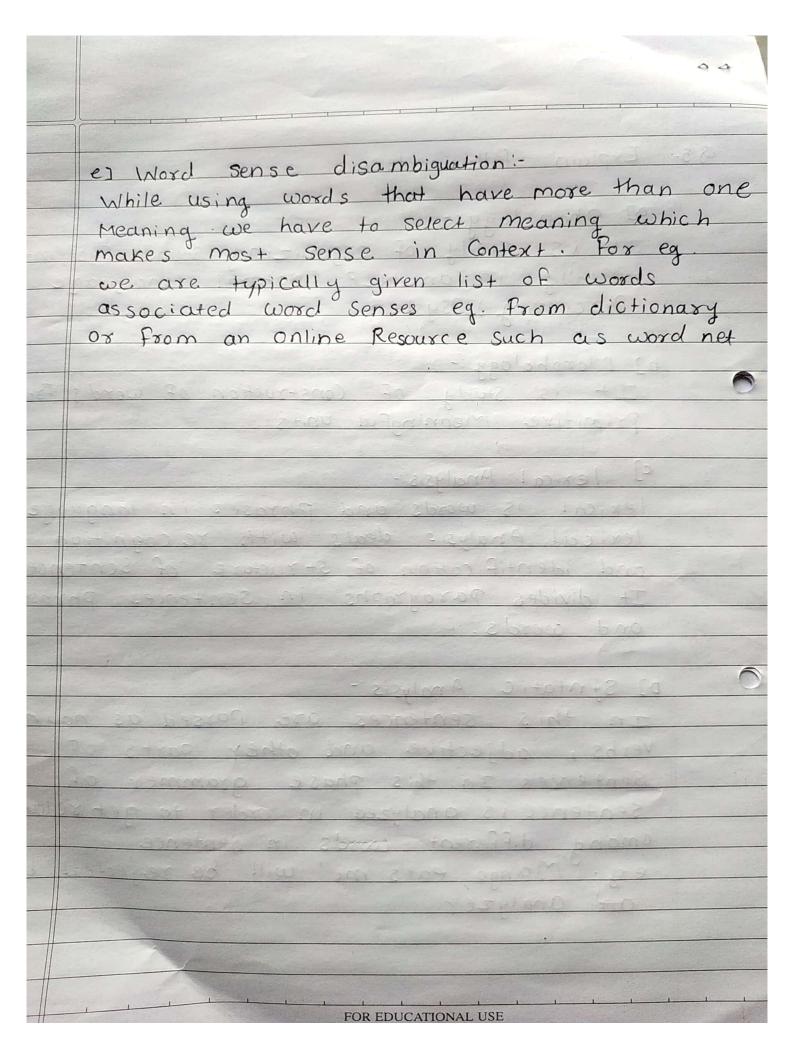
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Ø.3.	Mixite note an language Model.  1) The goal of a language Model is to Compute a  Probability of a token (eq. a source or
	Probability of a token (eg a sours Sentence or Sequence of words) lare useful in Many different NPI Applications
	2) language Model actually a grammar of a language as it gives the Probability of word
9	that will follow.  3) Incase of (LM) probability of a Sentence.  as sequence of words is $P(\omega) = P(\omega_1, \omega_2, \omega_3,, \omega_n)$
2000	of the next word in sentence PC welw, we was, we so B) A Model that Computes either of these is
	language Model.  6) There are various language Model available.  a few are:
	a] Methods using Markov assumption:-  A process which is Stochastic in nature is
	Said to have the markov property if the Conditional Probability of Future States depends upon present state.
t t	From the Markov Assumptions, we can formally
	define Models where k=n-1 as following.
	$P(\omega, 1\omega_1, \omega_2, \omega_{i-1})$ $O(1) \text{ Unigram Model } (K=1):-$
Jundaram	$P(\omega_1, \omega_2, \ldots, \omega_n) = T(P(\omega))$ FOR EDUCATIONAL USE

d) Bigram Model (K=2):p (w, | w, w2 ... w; -1) = P(w: | w; -1) Count Ceri-1) 9.4 Write a note on Machine Translation 1) Machine Translation is Classic test of language understand. It Consists of both language anlysis and generation Many Machine translation System have huge commericial use following are few of the examples DGoogle Translate goes through 100 billion words per day. ii) e Bay uses machine translation techniques to enable crossborder trade and connect buyers / sellers around globe. iii) facebook uses (MT) to Maneleate text in posh and Commente automatically in order to break language barriers. iv) systran became the first software provider to launch a Neural Machine Transation engine in More than 30 languages in 2016. r) Microsoft brings AI - powered transaction to end wers and developers on Android ios, and Amazon Fire whenver or not they have



95.	Explain following terms:
	It is Study of organizing sounds System- atically in an NLP (Natural lanaguage Processing) System
	b] Morphology:-  It is Study of Construction of words From  Primitive Meaningful units.
	lexical Analysis:  lexical is words and phrases in language  lexical Analysis deals with recognition  and identification of Structure of Sentences.  It divides Paragraphs in Sentences phrases  and words.
	D) Syntatic Analysis:  In this, sentences are parsed as noun,  Verbs, adjective and other parts of  Sentences In this phase grammer of  Sentence is analyzed in order to get relationsh,  among different words in sentence  eg. Mango eats me' will be rejected by  and analyzer.
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