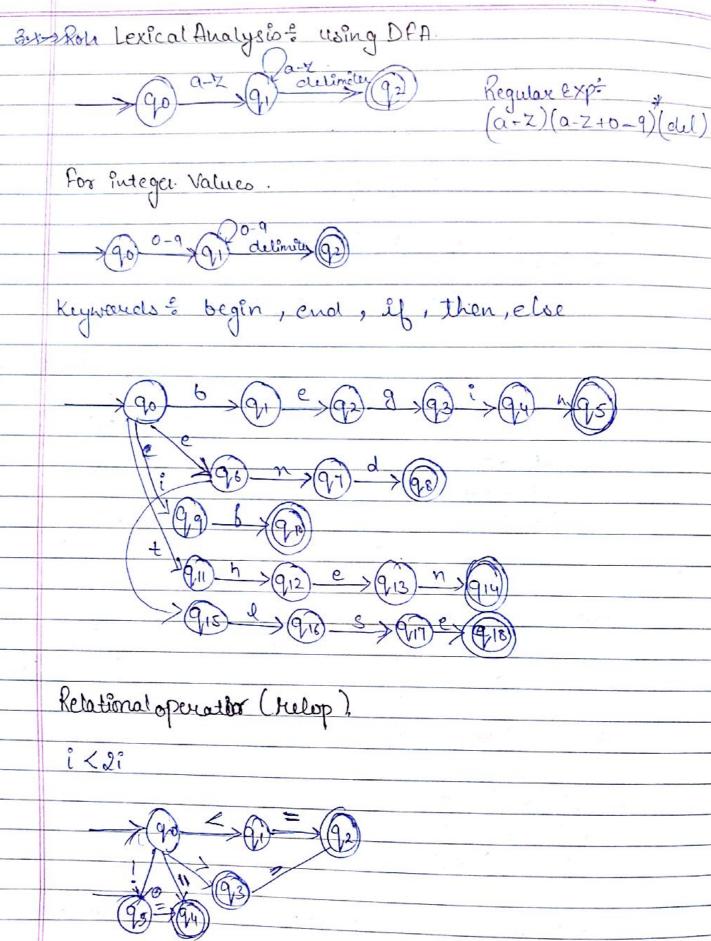
Langue	age Poccessing	System?		Page No.  (Date: 1	550
0	0 = 5	bounce !	25 Fram	(Date: /	/201
	,	1		•	
	Rice	proces	sare		
		1 Moc	lified source	program	
	Con	mpiler		0	
-target Assembly Code					
	Assembler				
Relocatable machine cod					
Library files — Linker I bacher					
	50.00	Jan	achine coc	CC.	
				C	
) evic	al Anal. ° £		DFA. lexime.	Tob of Lexi	cal Prolysis &  we can eimon  space, commend  help of DPF
LCCC	al Analysis =	- we	Jer.	(1) Simply	Space, commend
	int a = 0;		unime.	Dwith the	help of DPI
	Ent b = 1;			. We can	lacity
	int c=2;			Jucogr	ûze token
	int Sam = 0				Ety reduce.
	Sum = a+	6+C3.			l
S. No	Name	type	data typ	C	
	.O	_id'	int	<b></b>	
2	Ь	63	ant.	1:417	<0>
3	C	63	int.	10,17	
4	dum	.ed	int		
	1> <=> <0	>:			
< 60,	2> <=> <1	>	,		
	3> <=> <2		- 1		
					-81
Sun	tax Anilosis	_ \ 101	00000		. \
Same	intic Disch	Aio P	or LDW Cker	h down Auto	mata)
CONIC	The Hivary	$rac{10}{10}$	arojug		



language -> Regular Expression:

Token code Value

	Token	Code	Value	Token	Code	Malue.
	begin			Constant	7	Pointer to Eymbo
	cnd	2		<	8	
	il	3		<b>&lt;=</b>	8	2
_	then	4 .	_	=	8	3
	else	5	Pointento	<b>&lt;&gt;</b>	8	4
	identifier	6	Pointes to Symbol table	>	8	Ş
	iccerta fio		0	>=	8	6
	1 /	2				

· Complexity declease Acc to Presidence number äs avsign

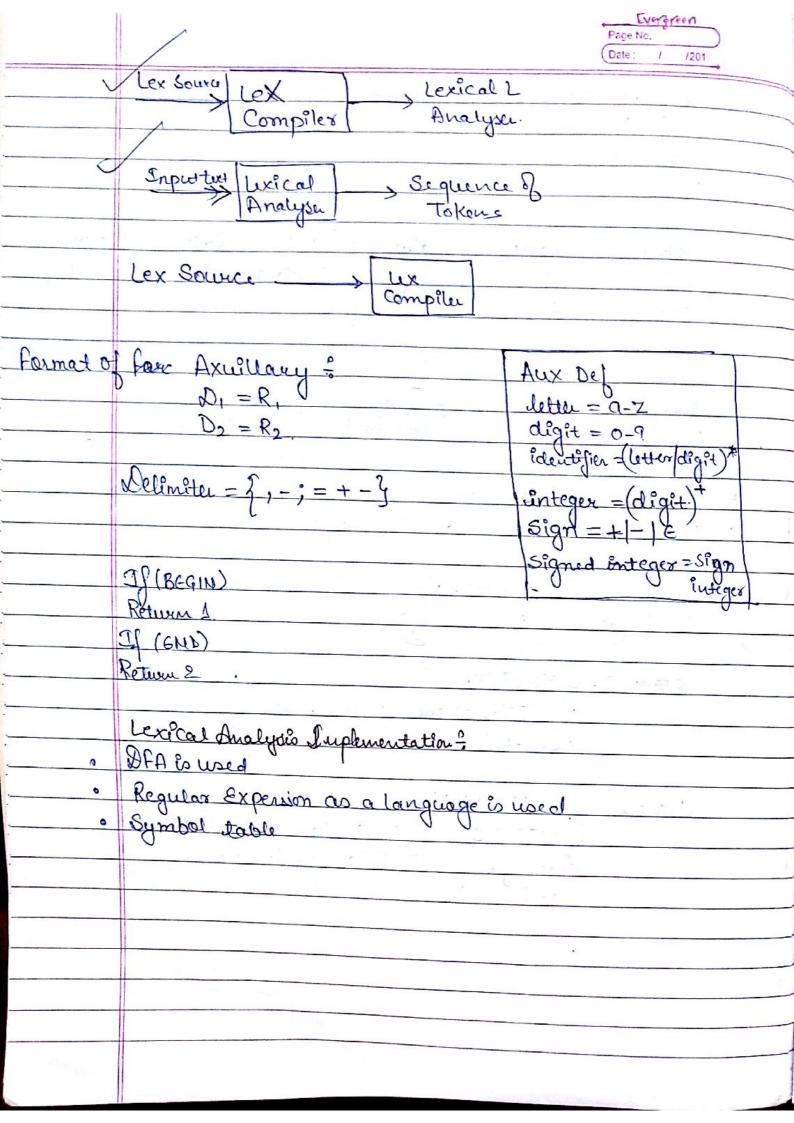
letter

State O: C = GETCHAR ()

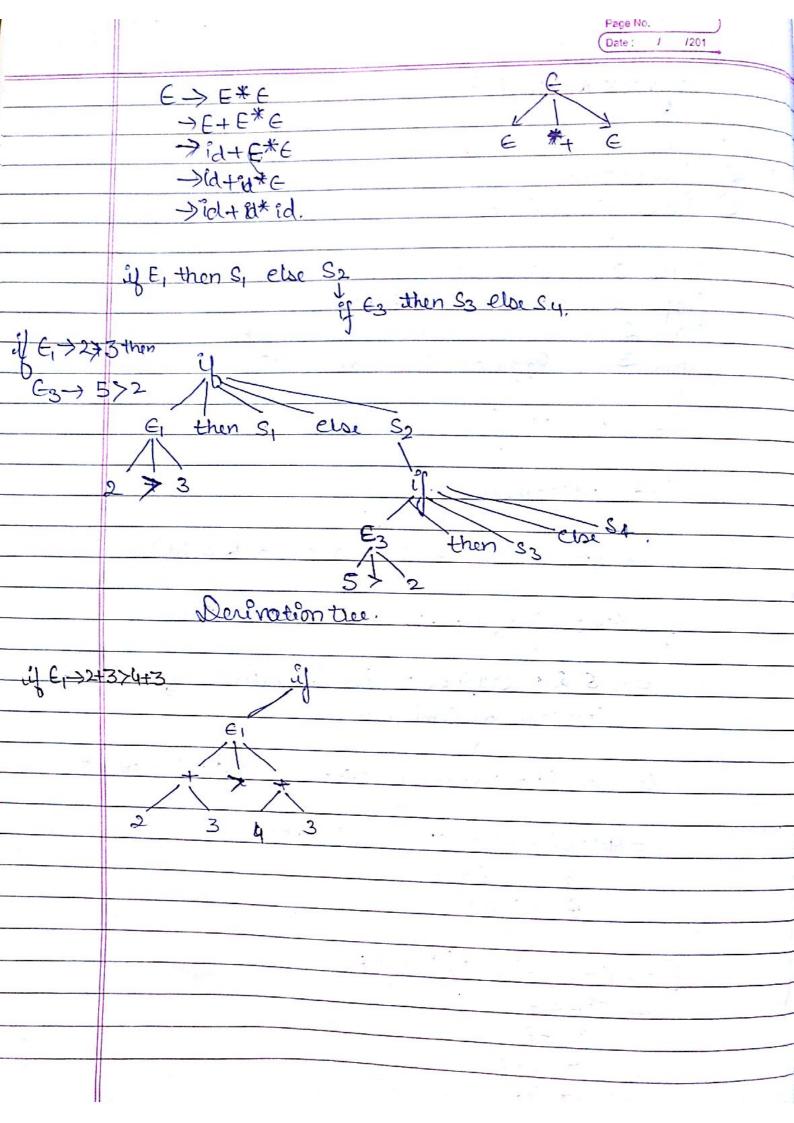
ESE FAIL()

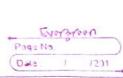
State 1: C = GETCHAR()

if LETTER(c) or DIGIT (c) them go to State 1
else if DELIMITER (c) go to State 2
else PAILL)



	Page No. 3-4.5  (Date: 1 1201
	Syntax analysis =
A	CFG
(2)	Parise Tree
(3)	Parsing Techniques.
-	Type O Phrase Structure Turing machine.  Type 1 Context Sensitive PDA  Type 2 Context free PDA  Type 3 Regular Gramman DFA
	Type 1 context Sensitive PDA
	Type 3 Regular Gramman DFA
	ight regarded goarns
	G= (N,T,P,S)
	N -> Statement, Expression.
	T -> operator (+, -, -, *, ), (,; a, b, c, id)
	if statement ? if (exp)-then state else state)
	SL>S; SL/s statement list is collection of statement
	Sperated by Semicolon.
	Statement list -> Statement; Statement List > Statement
	Expression -> Expression + Expression.
	$E \rightarrow E+E$
	$E \rightarrow 2+3$
	$C \rightarrow C + C + C + C + C + C + C + C + C + $
	$E \to E + E \mid E + E \mid id \mid -E \mid (E)$ $\to E + E \mid E + E \mid id \mid -E \mid (E)$
	→ id* E+E
	→ id* id+6
	→ îd* îd+îd.

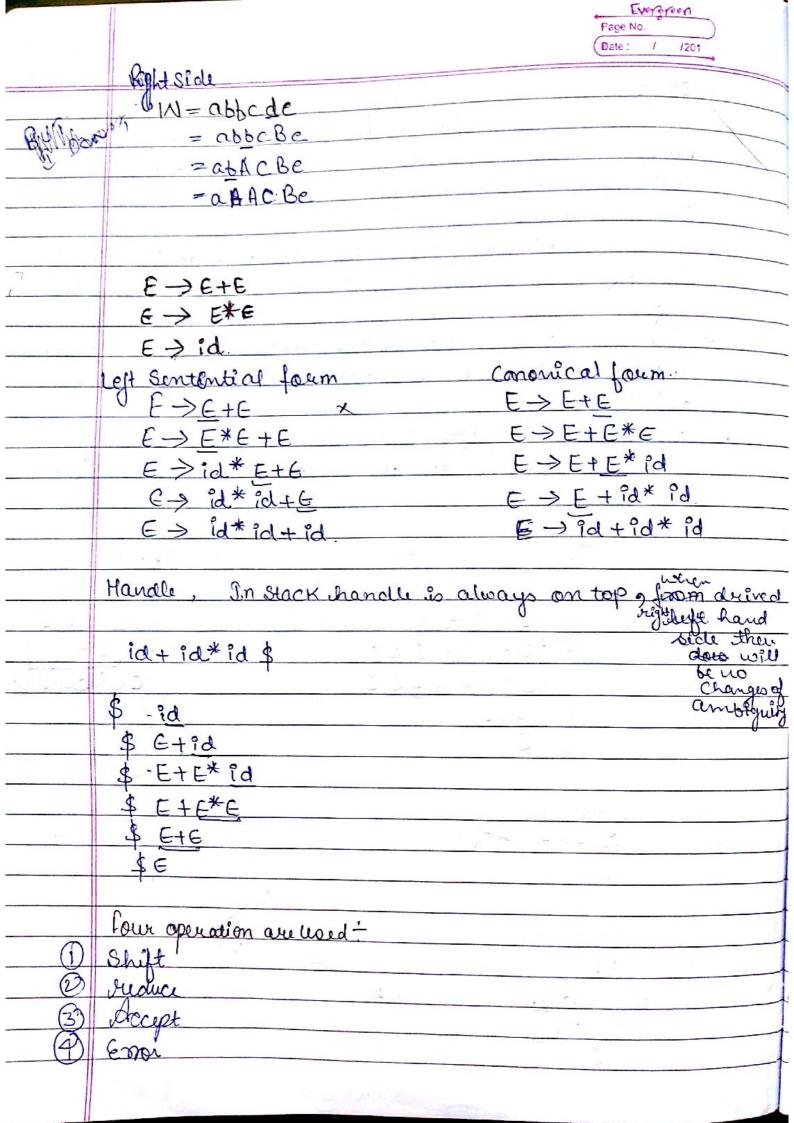




į.	(Date: 1 1201
	Motational Conventions?
1)	Non Terminals: ¿ Louver Case mame Such as expression, Statement and operator
11	Start Symbol (S) ? Non terminal.
	E; S - Expression & Statement (glammer Symbol) -> Hon-Turnion Single lotter
4)	Terminal Symbol: Single dower Case dotter A, B, C
5)	operator Symbol: +, -, :, *,
6)	Puncuation symbol & Such as paranthesis, digit 0-9
(۲	Identifier (id) :
	LBr -> Strings of Guarmer Symbol. (NUT)*
	Lexical Analysis -> Regular Expussion  Syntax analysis -> Token as a input
	Scanning > Lexical siverages  Lexical Analysis Complier > output Lexical Analyses L
	Lexeme is a sequence of characters in the Source progra that is matched by pattern for a token.

	Parser & A parson for grammer G is a program that takes
	as input the String wand produces as output either a
	parse-tere for w. If wis a syntax of ar an error
	mog indicating that Wio not a sentence of G
	Bottoma up pourou
	Bottom up pourou
2	Top down pauser
	Representation of parce tree?
_(1)	Representation of parce tree? Implicit (Production rule)
(2)	Explicit (prase true)
	,
~	Two type of descirations?
_(D)	Left most derivation (2) Right most desiration or Canonica
	or Left Sontential from
	S -> iCts
	S→iC+SeS
	$S \rightarrow q$
	C-> b
	S. Cinare
	i C t
	es
	6 C t
	a.
	b a
	W= ibtibtaea > Left Sentential from
	> Left Sentential form

Bottom cup-Shift reduce parising & Shift seeduce parising is a botton up parsing technique in attempts to construct a Reise true for a input String orgining at the leave and working up toward the acost where roots a Start Symbol S Side of production is supplaced by the Symbol on = Each suplacement of the seight side of a production by the left side in the process above is called the oceduction Replacement of the Substring by left Side of production leads to the enduction to the Start Symbol Right + left & w=ibtibtaca w= ibtibtaea zibtibtaes = ictibtaca = ibtibtses = ictictaea = ibtictses = ictictsea Estables = ictictses = ib.ts z icts =icts= S. S->aAcBe 690 A -> Ab to b B>d W= ab bcde = albcde warrand = a Acde = a Ac Be



			(Date)
	7.	Pront/	Action
	Stack	id tid tid \$	1
(1)	(\$/	1,a +1a 1a p +- ?d* id \$	Shift id.
(2)	\$ 10	id*/1d\$	Shift id.
(3)	\$1d+	101/101 P	, 0
		Δ.	Action.
	Stack	Input	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(1)	\$	id+id*id\$	Sholl of
	\$id	+id*;d\$	Shift id.
	SE	+ id* id \$	Reduce ∈>id
	\$6+	?d* ?d\$	Shift +
	\$ E+id	* id \$	Shift id
	\$ E + E	* id \$	Reduce E>Pd
	100	id \$	Shift x
	\$ E + E *	\$	3/11/10
	\$ E + E * Pd	4	Reducied
(1)	\$ E+ E* E	4	Reduce Exe
	\$EtE		Reduce E+E
(10)	\$ E \$ G	\$	- Accept
	Pe	1	Tinaki
	Pale at class	/ 82 Qn. 91 1 2 2 2 1	и 9
	nove of stack	K. In Shift reduce parse	0
	Bool Stronice	0	
	Lexical Avan	Sis > Role 4 need	
	J. J		

