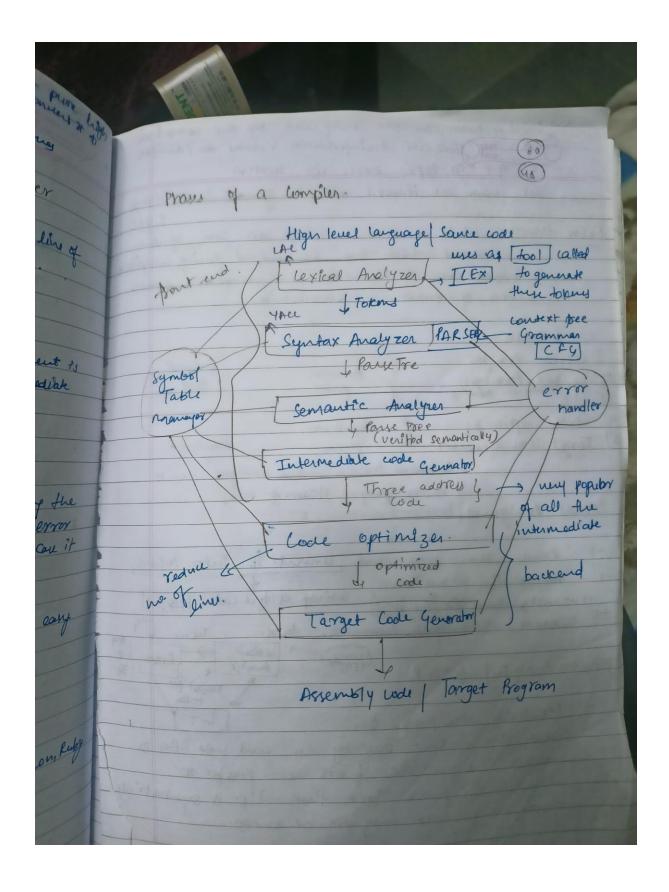


Unte	Interpreter - Is also a pro- level code executable upreted prog. is usually so ef -> Resto	live by line and convert of the code line by line. wer wort compiles ones - feel, Rython, Mattab
-	COMPILER	Interpreter
3 1	Takes entire prog at	1+ takes single line of wode at a time.
2	Speed- Wigh	Speed - low
23496	Speed-Irigh quivate intermediate object wde. So, menony	denoy requirement is
	requirement 1s more	code created.
5	y errox	Level Market Designed
200	all-the errors are displayed together	progression the 1st error is met, in which can it
	united age to	Stops.
5)	errordetection is	error detection is easy
6)	compiler are larger	Smaller in size
21	(, C++, Scala,	7) Per , lython, Ruby
THE REAL PROPERTY.	in also your way and	



Symbol table - Data structure being used by the compiler to store all their formation related to identify eft its type, scope, size, location out phase are interact with the symbol table may Error Handker It is a module which take care event which are encountered during congil 4 it takes care to continue the compilation praces even if error is encountered. 7 6 Phases I cerical Aralysic FRONT a) Braysis prane m) Code optimizer Synthesis 5) Torget Code Generals Backers (In wical Analysis, lexical eurolysis correct source prog - steam of tobay lexical Analyzer - Function +. Leads fine prog and converts it into tokens, suppose if we pass azbte; - we will get token like [ide ideid] using a tod call [LEX tool I remove white spaces, comments, 2) Syntam Analy Zul PARSER constructs the parce tree I takes the tokens one by one and up cfg to construct the possebree. If it is not possible to construct for parce tree then. Ip is syntaticity increment à correr meg will be shown

A toten is a requence of character strat

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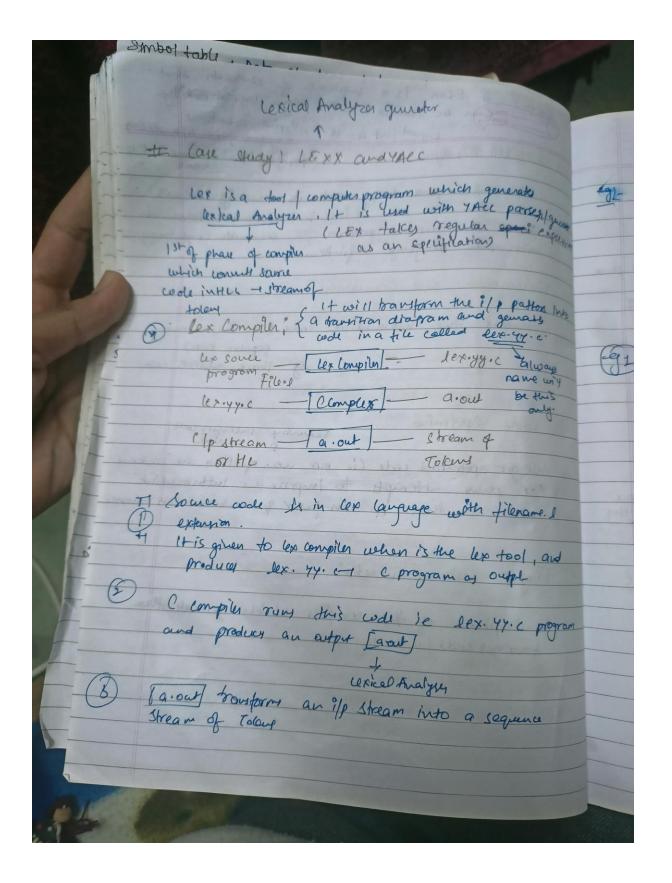
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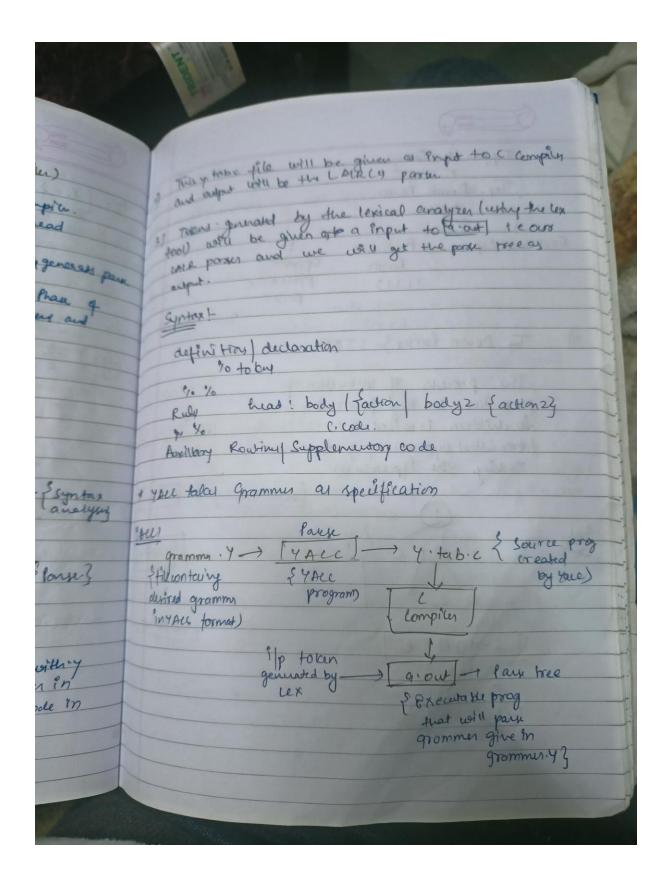
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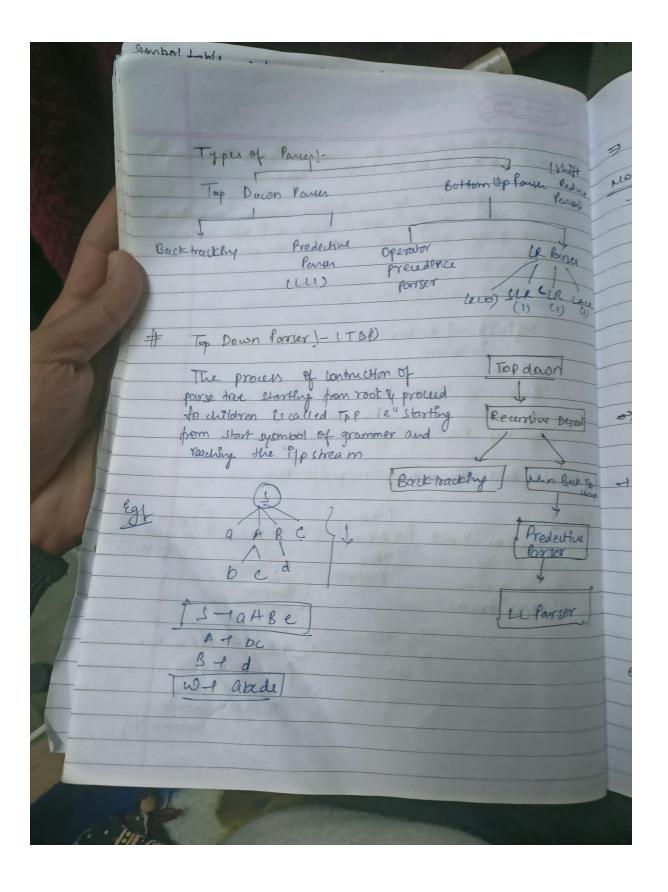
typical int a = 15; , typical ty abol tuble d during complete 3) Semantle Analyzer I verifies the park tock, wholer its meanigful or not?
It was the lone tree to into in the symbol table I mplation pray check the source program for semantic consistency with the language definition. a) Intermediate code Generation. FRONT Generals the intermediate code (we have many popular code) Backers eg Three address codo es corrects 5) Code Optimiru. removing uncersary tool I We get optimized code (ie our no. of ling are reduced ito tokers, of C.O phase afferepts to improve the intermediate code so that it run faster & consumer less resource [LEX tool Tray 6) Target code Generator. Porson 1 To That phase of the compiler while general the target was assembles codo. cfqto Syntaticy

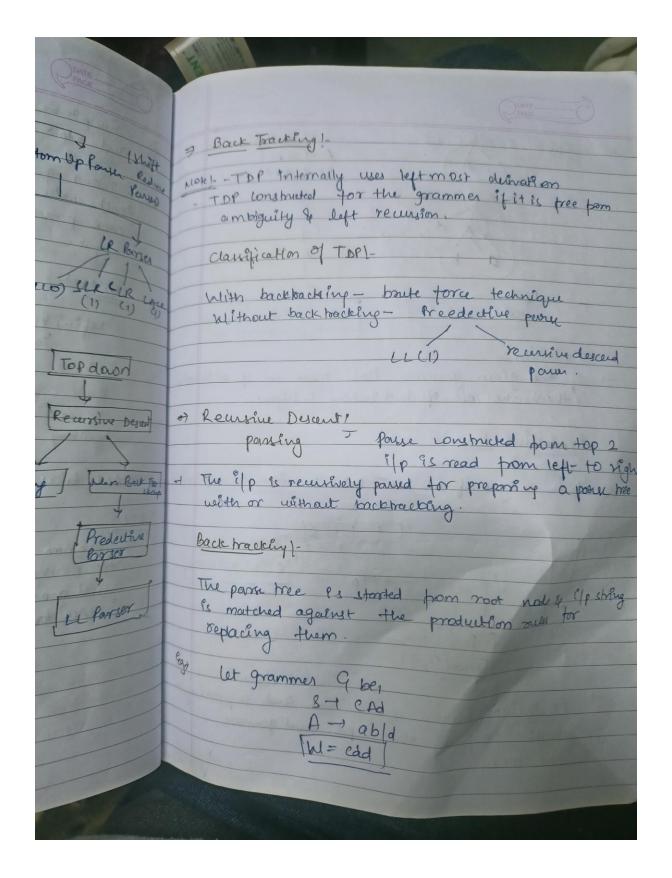


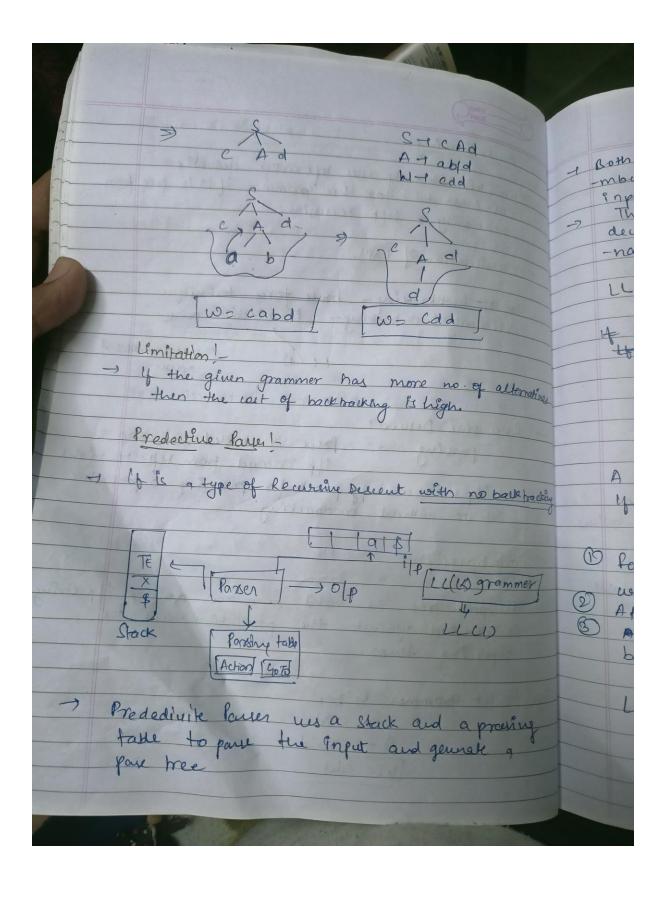
gr [y. of to include < s+dio. w) pettern & actom? maru () 1. 5 # include (stdio-h) % P/0 action I will be in "hi" { print (" By"); 4 syntax) · * & print + ("wray")" and marne) print + (" enter 1/p"); TYLEX (); Il take ip le querate the tokens are to pattern rulin sevias int 47 wrap() 11 to identity
{ return 1: } end toip

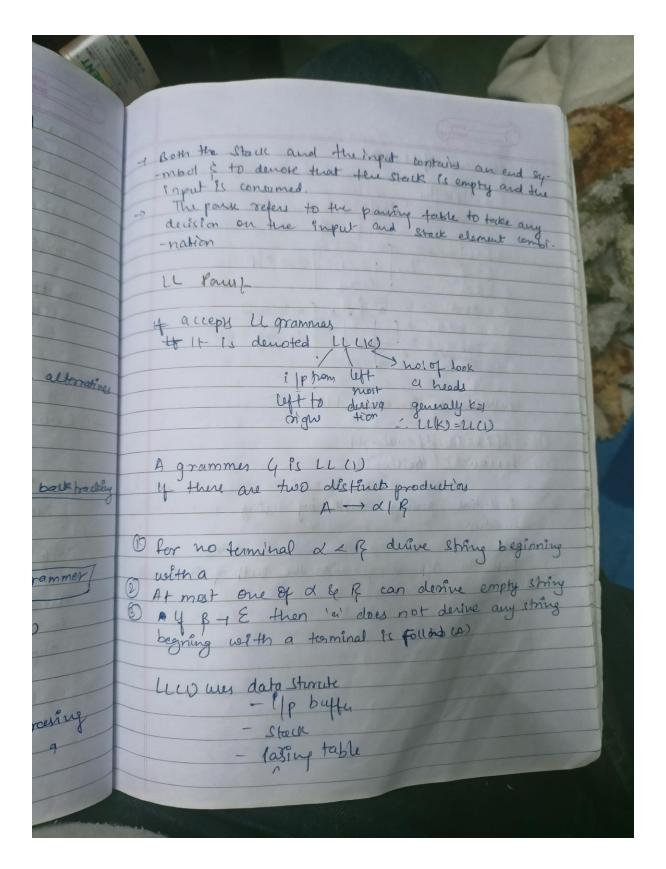
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Paryer garmal	4	
Porus generator 1 generates a 1001 Later paren Date		
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Ciec - Another - Correction	9	and
It stands for yet Another Compiler - Compiler. It is a tood for generating look a head Left -to-Right (LALK (i)) parser. It take if p from the lexical Analysis & generals pare bee.	91	Tolo
left to line 1 LALR (i) I parser.	3/	001)
A fate 1/p from the lexical Analyses & generals par		LALE
tree.		ort
Syntax Analyzes / forges is the 2nd Phase of the compiler which takes 1/p as token and		Syr
general a parse bal		
		d
wholing osteps		
Step 31 yae Turan yan		6
spefication (compiles) file. y		-
file.y	The second second	A
Jeps: 4. tabec - Transita - arout Scentor		1
Hepz! y. tab. c [Clompita] arout Ssyntax analysing	*	YAC
	VA	
Step31. I/p 1 To kow	YA	eci.
texical		51
		No
Analyn)		9
DIP to the yace on the man		
1) IP to the yace compiler will be a file with y extension, It will contains desired grammer in Yace format. Yace will convert if		
Tace format. Yace will a served grammer in	-	
the form of y tabic tile.		
		1
i A		

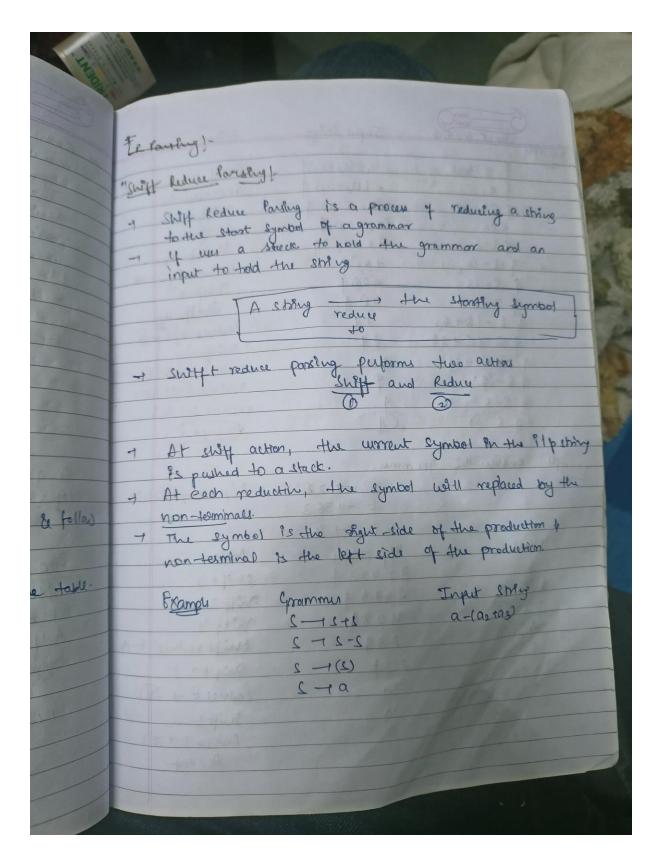












Examply Stack Contents	Juput String	Actions	4	ler
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95-10	103)4	reduce to	2-5	th
45-15+) 9	SWH.		ha
62+27-28) \$	reduce by sta	7	4
95-6	\$ 1100	reduce 5769	er er	20
Crossed (Dissert)	Janesse zalla ana	tecepta		
Examply Consider the gra	F -1 2 E2 F -1 3 F 3	8 (psmy 3242)	Aprile 1	Px
Stack	E - 1 4	Lange of the		48
4	32423 \$	Action swifts		
432	4234	shift y		
4324	234	Shift reduce F-14		Ope
\$32.62	39	Reduce & -1 2F2 Shift3		
9383	8	Reduce 3-7 3F3 Accept		
P. F		-		
The state of the s				

