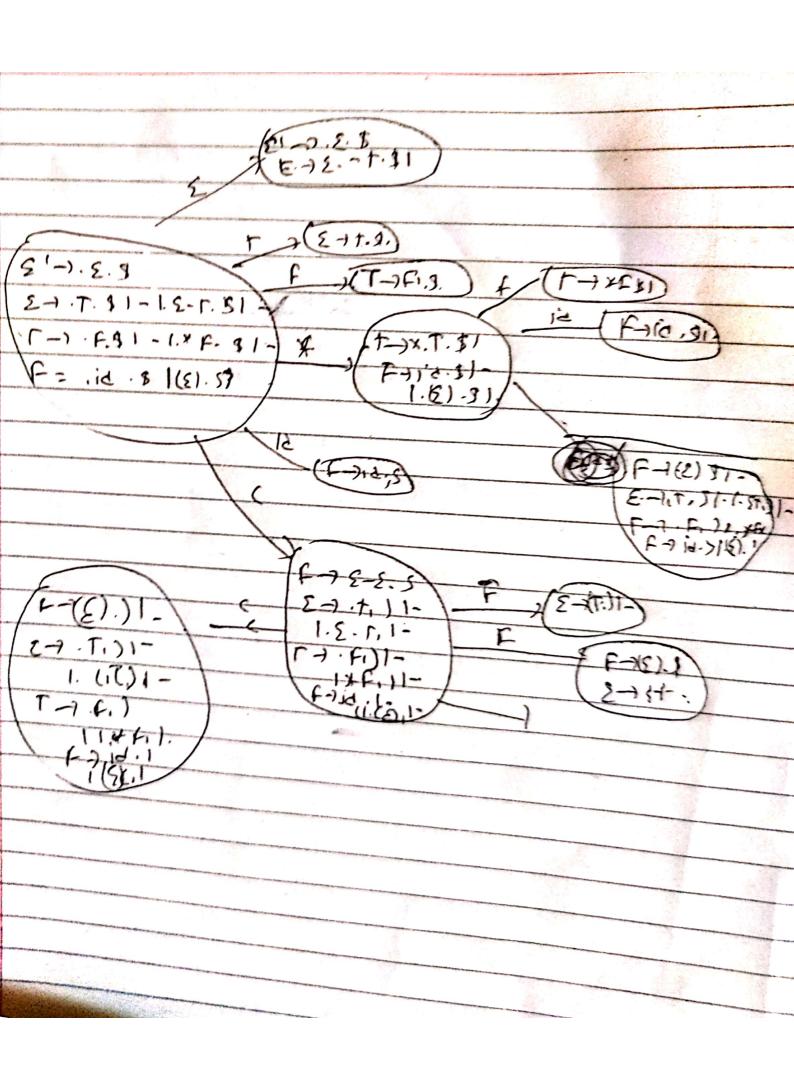
KATHMANDU UNIUSRSITY COMPILER. 2nd Internal Submitted by Submitted to! Mr. Neibin (ahimter Probhat Nayzine CS 32.

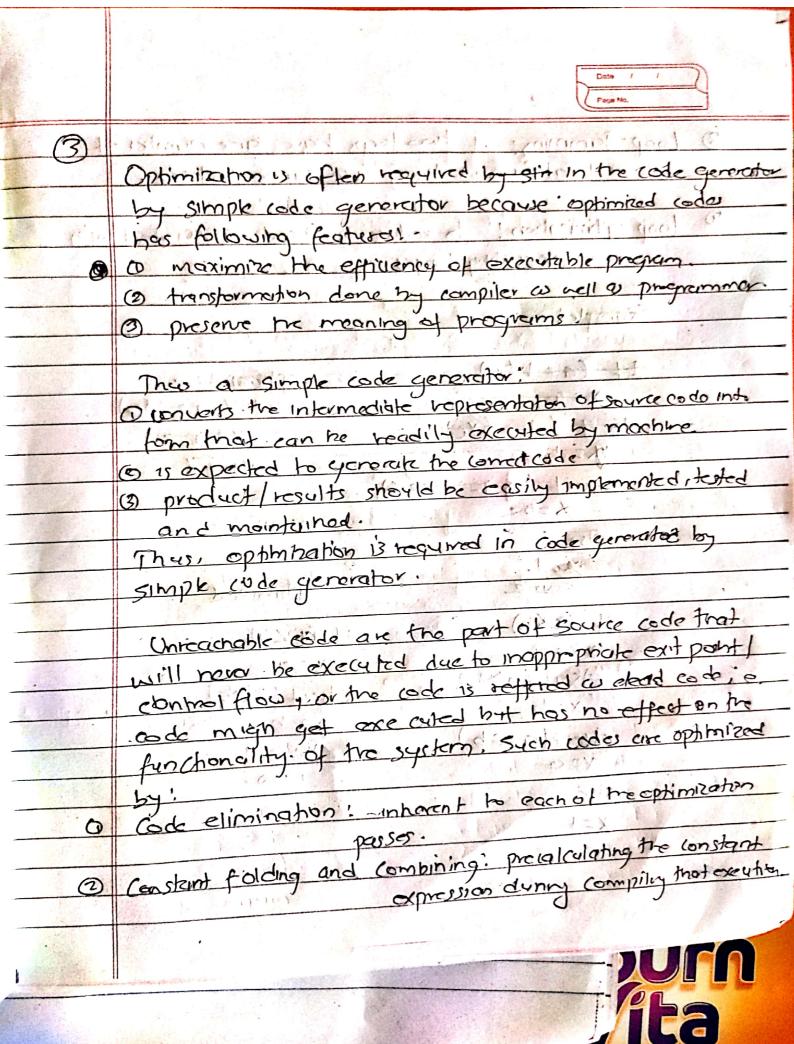
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3

A syntax clirected defination binds a set of semantic rule to production. They are high level specification for the translation schomes it. They hide the implementation details and do not necessitate the consideration of translation order. A compiler can exploit type information for better performance. & Syntax directed defination can be used in type checking because it can hold the value/rules set for certain types to occur. For example, it we are taking a number and type-checking it as integer in this care, SDD will make rule of a number to be integer and when all rules are soushed it resolution on Integer. Example ist type-chaking expression in SDD E7 11tory1. 1 {8.type= (nat 4, Et num SE-type= inkgar3, E1. Lype = amy (S.+3, then + dec enor? Ε-1 ε,*

(2) - ε,τ, ε,type = pointr(+) then + Else emor 3



3	Loop-Terminy! if two loops have some number of
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The second of	alse me de manifestation
	X=1
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1,341-13-6-1	PRODUCTION OF THE PRODUCTION O

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Arener.

Syntax-Directed translation is the combination of context free grammer and symen semantic rule. Here we can place semanticinary way in hight hand of the production. It involves passing the information bottom-upper and/or top-down the parse tree in formation bottom-upper and/or top-down the parse tree in formation bottom-upper attached to the nodes. They uses lexical value of nodes, constants and attributes associated to non-ferminal in their defination. Its general approach u to constant a pairse tree or a syntax tree and compute the value of ethibuts. It the node of trees by visiting trem in some order.

Editory of the Control

Syntax-directed translation = grammart semanticrub

Now for the SiDT to concert their expers expression to postfix expression ine have.

Infix notation! Operand operand operand operand

Example !

Date /	1
Page No.	

Page No.
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$\mathcal{L} \rightarrow \mathcal{T}$
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F -) num & print lex. value?
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