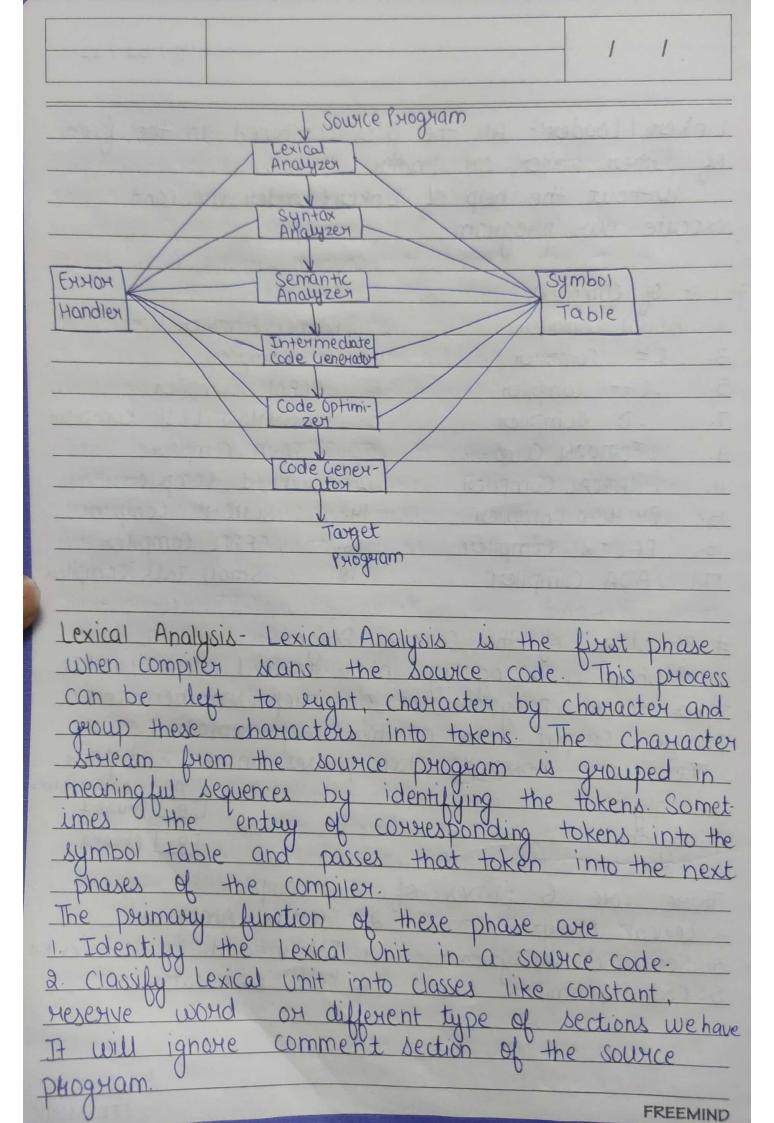
FREEMIND

Linker 1 Loader: - All the	files combined in the form
of either linker on la	ader.
of either linker or lo Without the help of	Linker/Loader we can't
ехесите оин рноднат.	
# List of Compilers	
1. ALGOL Compiler	2. BASIC compiler
3. C# Compiler	4 Compiler
5 C++ Compiler	6. COBOL Compiler
7. D Compiler	8. COMMON LISP COMPILER
9. FORTRAN Compiler	10. JAVA Compiler
11. PASCAL Compiler	12. PL/1 Compiler
13. PYTHON Compiler	14. SCHEME Compiler
15. FELTX Compiler	16. EFFIL Compiler
17. ADA Compiler	18 Small Talk Compiler
# Structure of the Com	npiler Design
1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INTER- HEIMEN DEMULION MAL
takes sounce Drogram	in one representation and
Produce Output in a	another representation.
There are normally	two phases in the compiler
1 Analysis	A ASCAGO VI
	A phase 1
2. Synthesis	197 phasea
There are 6 phases	of the compiler
1. Lexical Analyzer	2. Syntax Analyzer
	4. Intermediate Code Generato
3. Semantic Analyzer	6. Code Generator
5 Code Optimizer	The state of the s
	and the second this is
The state of the s	



Compatibility 5. It also check if the source language permits the оренапа он пот. Eg- Float x= 20.2; y= x * 30; In this code semantic analyzer type caste to the integer 30 to float 30.0 before multiplication. Intermediate code Generation- Once the semantic Analysis is over the compiler generates intermediate code for the target machine. It generates a program for some abstract Intermediate code is between the high level language and machine level language. The intermediate code heeds to be generated in such a manner that makes it easy to translate it into the target machine code. y= x* 30 Variable = Variable 2 * constant The following function can be done on intermediate It should be generiated from the source 2 It holds the value computed during the process of translation. 3. It helps you to translate the intermediate code into target language. It allow you to maintain precedence ordering of the source language.

5. It holds the correct no. of open

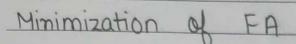
the instruction. Fox Eg Total = Count + Hate * 5 The following task will perform by the intermediate code with the help of the following address code method. t1:= Int to - Dioat(5) t2:= Rate * + P; t3 = count + t2; Code Optimization- In this phase we removes Un neccessary code lines and arranges the sequence of Statement to speed up the execution of the program without wasting resources. The main goal of this phase is to improve on the intermediate code to generate a code that suns faster and occupies less space. The primary function of this phase are-It helps you to establish trade-off between execution and compilation speed. 2. It improves the running time of the target program.

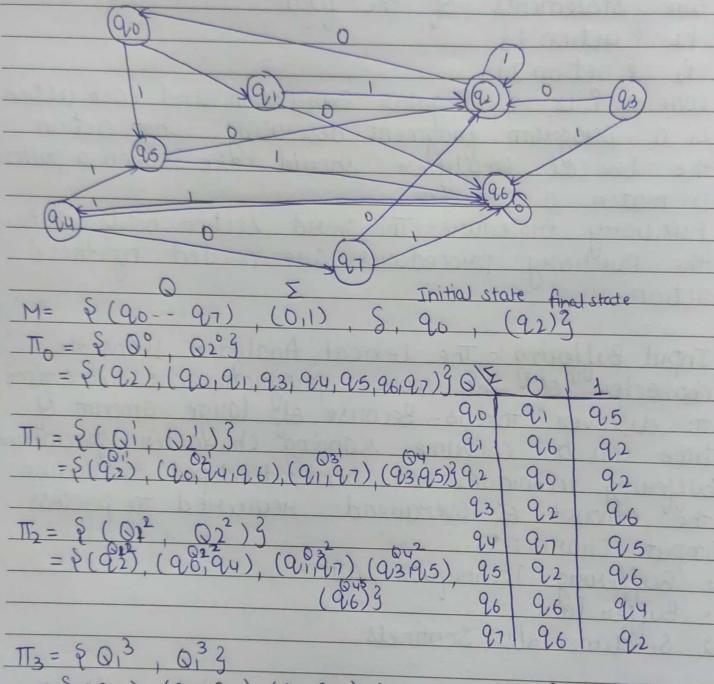
3. Removing unreachable code and eliminate unused variables. 4. Removing Statements which are not altered from the loop. a = into to float (10); b = (* a; d = f+b; FREEMIND

FREEMIND

constant and Hegway delimitions. Translation Rule- Translation Rule of a lex ps are statements of the form Pi & action 13 & action 23 Where P is a Regular Expression and each action is a phogram by doment describing what action the lexical Andluter should take when a pattern Auxiliany Phocedure- The Thind Section holds whatever the AuxMiany procedures are needed by the action. Input Bulleving: The Lexical Analyzes scons the character of the source program one to discover tokens. Because of large amount time can be consume scanning character specialized bullering techniques had been developed to reduce of overahead required to imput characters. * Bullering Techniques are-1. BULYEN POLIN 2. Sentimentals Sentinels In this liquie we take bulletes lookahed 100 each one pointer marchs at the beginning of the token being Beginning a lookahead pointer sans ahead beginning point until the token

FREEMIND





 $= \begin{cases} (92), (90,94), (91,97), (93,95), (96) \end{cases}$ $= \begin{cases} (92), (90,94), (91,97), (93,95), (96) \end{cases}$

This = Th

 $M' = S(A_1B_1C_1D_1E), (0,1), S', qo', F'3$

