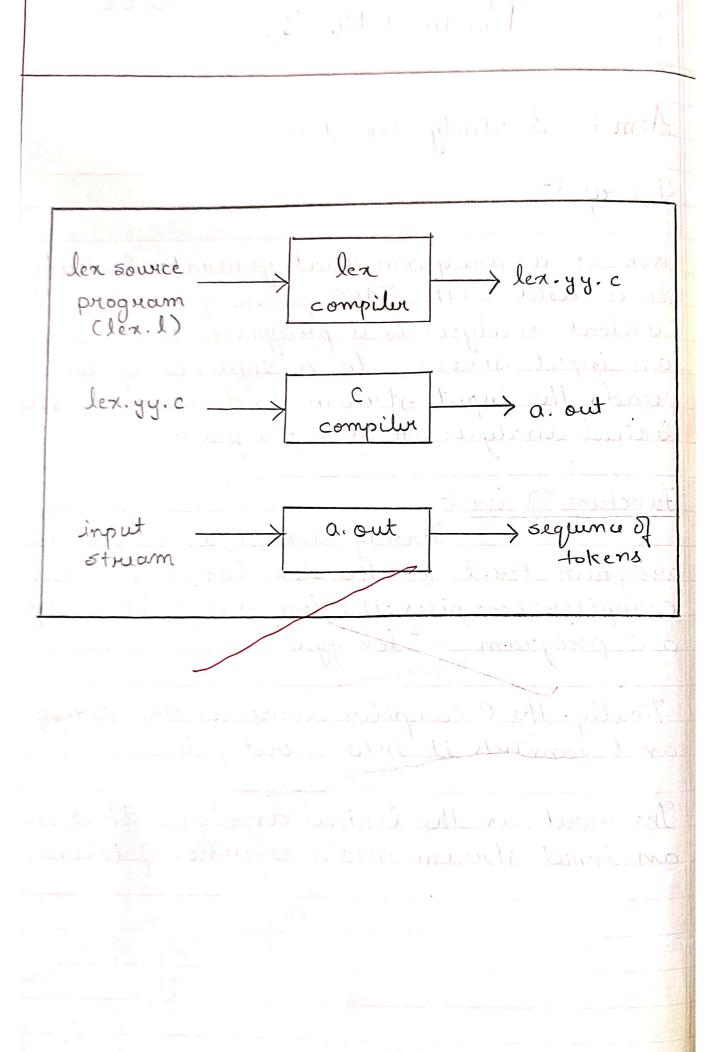
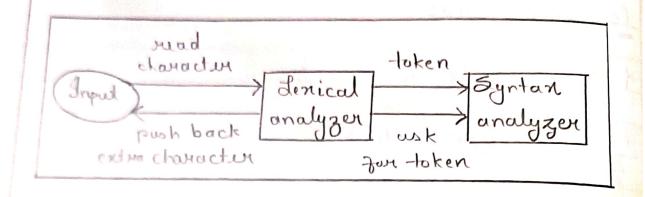
Aim: - To study lex tool.  Theory: -  Lexical with YACC parer generates I transforms an input strem into a sequence of tokens. It was a proper and produces the lexical analyses are input stream and produces the
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lenical analyses is a program that transforms an input strem into a sequence of tokens
an input strem into a sequence of tokens
reads the input stream and produces the
linical analyser in the C program.
(27 )
Function of lex :- 3/2 of 11/2
Firstly lexical analyser creates a program lex. I in the lex language. Then lex compiler compiles the lex program and provides
program len. I in the len language. Then len
compiler compiler the len program and provides
a C program - ben. yy.c?
· · · · · · · · · · · · · · · · · · ·
Finally the C compiler compiles the lengy.c
and convoca It into a out file.
The arrest in the last of
an input Atuans into a malyser that transform
The arout is the lexical analyses that transform an input stream into a sequence of tokens.



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	len File Format:
1000	
	definitions/declaration?
	d transaction rules ?
	d transaction rules ?
	of many and and a family
	fuser subroutines ( aunitary procedures }
	d less program into a less of all the
	A les program into 3 sections by % % delometers
	Déclaration section encludes déclarations of
	Dedaration Section includes declarations of variables, manifeis, constants and regular definition
100	
	Transaction Rules: Transaction rules for len Truogram are of the form -
	NAGEUR'S A
	· P1 daction 1}
	P2 {action 2}
	P3 dactions)
Mary Services	
	26000 1011 P:
No. of Street,	with each ris a jugular expression and each
	action is a program gragment describing what
	when a pattern matches a leverne
	When a pattern matches a lexeme
	The second secon



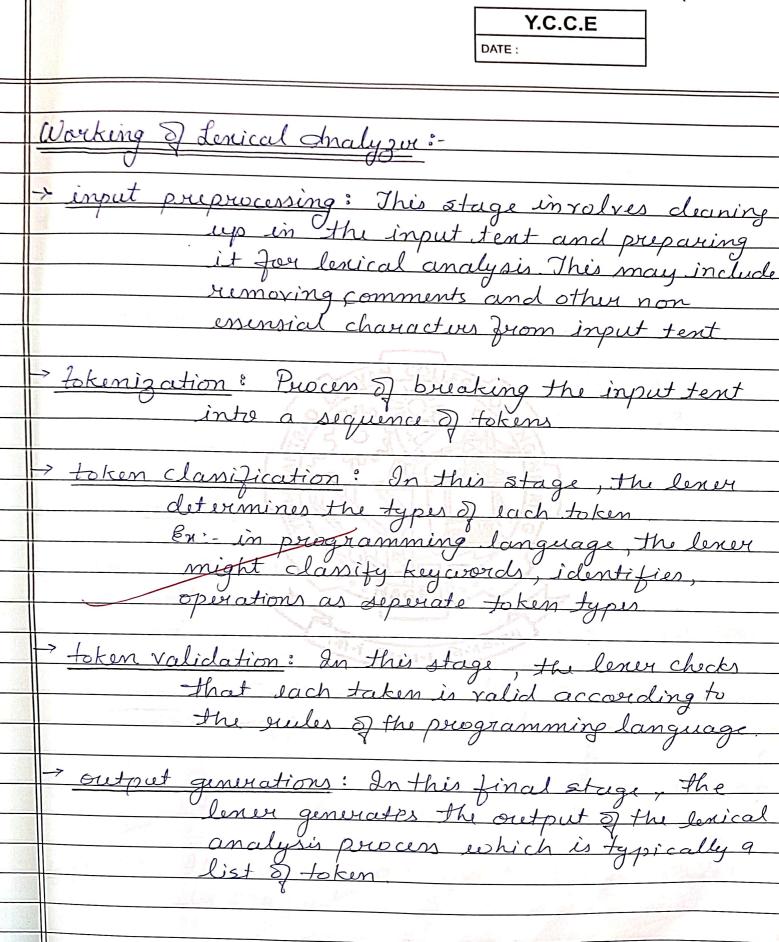
Thus sould routines are quenillare proceedings	needed
low the actions The Automorationer can be	loaded
Usur soubroutines are aunillary prescedures by the actions. The subreactines can be with lexical analysis and compiled seper	ately.
1041 re water and and and some some	

Lenical dualysis:-Lenical analysis is the first slip in compilation of a program. It is the lexical analyser who called as scanners, that does the lexical analysis. It converts high level languages source code into a sequence of token. ofexical analysis can be implemented with deterministic finite automata.

The output is a sequence of token that is sent to the parser for septen analysis.

Joken: - A lenical token is a seguence of characters that can be treated as a unit in the Grammar of programming language Exis- Keywords, Identifier, special symbols, constants, operators, strings

<u>Leneme :- The sequence</u> & character matched by a pattern to form the covers ponding tolon or a sequence of input character that Comprises a single token is called a lenems Eg:- "float", "return", "=", "-", "273", ", etc.



DATE

```
Now, consider the program
 int main ()
The ralid tokens are: 'int', 'main', 'c', 'j', '{', 'int', 'a', 'b', ';', 'a', '=', 'lo', ';', 'a', '=', 'lo', ';', 'a', '=', 'lo', 'seturn', 'o', ';', '3'.
Some common commands resed
yytano() Returns a low encountries the end of file
         it calls gywrap functions. If gywrap
setwin non-zww value gylen terminates
             and return to main. It programmer wants to scan more than one input file, then yourap should return o
gylen () Returns a value indicating the type of token that has been obtains.
 yyin() It points to an input file which is to dee scanned.
```

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	gyout It points to a file where it has to keep the
	output zile.
-154	The part of the second
- 15	gytest a buffer that holds the input character
A ST	that actually match the pattern (lenene) or say a pointer to the mouned streing.
- A-	or say a pointer to the mouned streing.
31	
	error is encountered during parsing.
±4.	lesed in ylen. It is called when syntan
	every is encountered during paising.
	STATE OF THE STATE
	y level: Variable sord to associate attribute or solves with token
2	rotues with token
-12	gyleng: gyleng in integer raviable that holds the length of matched tent in gytent.
	the length of matched tent in yytent.
	yylines: It is an integer variable that keeps track of current linence. in the input
	track of current linence. in the input
	Jili or stream
	The second of th
	Conclusion 3-
	Thus we have success fully executed
	Lithe len tool.
	$\mathcal{L}_{\mathcal{O}}$
	18/3/24
and the Account	