Harihaian KI D12 A 23 SPCC - Lab. Aim: Implement rescical analyzer rising FLEX a) count no. of vowels & consonants b) Count no of words, characters & lines c) Count no of Reywords, identifield & operating d) Identify even & odd integers e) count of plintf & deanf in c. f) classify english words as verby adverbs, adjectives Theory: - Lese is a program that generates electical analyzes its used with VACC puser. - It is a ploglam that transforms an coput of learn into a alguence of tokens Oteps are as follows in form of diagram Le de Compiler P. C compiler 80 UCE ploglam Block Diagram for Lox. * Lex ploglam is deperated into 3 sections - by % % delineters. The formal of lex. Source is given as example below. To count no. of words It include < 8tdio.h> # include < conio · h > ... int (= 0; % 1°% /* Rules. */. (Eq - RA - RO - 9) * $\begin{cases} 1++ & 3 \\ 6 & \text{FOR EDUCATIONAL USE} \end{cases}$

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"\n" \{ \plintf (" \% d\n", \earthcape); \earthcape = 0; \} y. y.
int yywtap (void) § 3 Pnd main ()
yylex ();
2 detuno
Regulae Eseblession en lese:
1) Opelators: "\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
9) chalacter class: [B-2A-2], [Aabc] = not abc 4) Obtional Explessions: ? is obtional element.
ab: c = either ac or abc. 5) Repeated Explessions: Repititions are indicated by \$8 + eg) ax: any number of a's [a-2]+: positive number of consecutive.
a 21,53: One to five depititions of a
It Lese pledefined valiables.
1) int yylex (void): call to invoke leseq. 2) Chou * yylext: pointer to matched string. 3) yyleng: length of matched string.
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6)	yy lval: Value associated with token: int yyuhap(voia): whapup, detun I if done, o if not done. FILE * yyout: 0/p file. FILE * yyin: i/p file. ECHO: write matched string.
11	Steps for Bolving & executing less plagfams.
	i) With lex pologiam & Namit with . I extension
2	9 go to clirectory where fik name of is rising cd.
3	Type flese filename of command to get c'file that is named as lextyy'c.
	e) To dun this, fielst compile it with. C compiler using
	gcc leze. 44.c - O filename . exe.
	5) Now the playam is commuted to escocutable format dun it rusing command.
	file name · ezec.
	Conclusion: I have auccessfuly studied. FLEX tool & Emplemented it.
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