4. Using for Loop search for a next line 1. Declare all variables & file pointers. I'm the string & consecutively increment 3. Display the Yp programs. a variable count for next the line. t. Seperate the keyword in the prym & display it. 5. Display the header pages files of the 1/p prym-5. Using for loop search for a characters 6. seperate operators of the 1/p progm & display it. except space & new line in the string 7 Print the pretuation marks. & consecutively increment a vaulable count 8. Print the costaint that are present in Up progm. 9. Print the identifiers of the 1/p progm. for characters. 6. Repeat Step 3, 4, 5 until the loop reaches Calculator Using Lex to the end of the string. 1. Take the 1/p string 2. call the function yylex (). The control will 7. Check for the corner account cases given to rule section. (discussed above) & do accordingly. 3. Define the rules. 8. Print all the values of the counter. dy[0-9]+([0-9]*)"."([0-9]+") add "+" | div "/" | sab "-" | pow "^" NFA to DFA 1. Start. 2. Input the required away is, set of 4. Check the rules as alphabets, set of initial state, set of { dig} { digi (); } {diu} {op=4;} final states, transitions. {add} { op = 1;} {pow} { op=5;} 3. Initially 0 = 4 {sub} {op=2;} 4. Add 20 of NFA to Q'. Then find the {mul} {op=3; } transition from this start state. { ln} { printf (" In The Answer: " of In In ", a) } 5. In 01, find the possible set of states for Switch (op) { case1: a=a+b; each up symbol. If this do set of states is not in o', then add it to o'. casez: a=a= b; brak; case 4: a=a/b; break 6. In DFA, the final state will be all Cases: a = ax bj the states which contain f (final state break cuse 5: for (i=a; b>1; b--) of NFA. 7. Stop. a=a*i; byeak; Intermediate Code Generation 3 op=0; }} Lex prom 5. call yywrap () to wind up the session. z. In rule section, compare gytext with regular 6. Stop expression if yytout match [0-9]. Counting Vowels & Consonants return DIGIT If yytext match [A-2 = a-z] [Az a-z 0-9]. 1- Take the Yp String. 2. Call the functor yylex(). The control will given return 10 to rule section. 3. Check rule if input is [aciou AEIOU] then increment if yytext match [+-/* In] return * ygtext. count as V++. Else 4. Increamment Count as C++ 5. Output the no: of vowels & Consonants. YACC Prgm Counting no of Words, lines 2. Take token generated in the lenpigm. 1. Take a string as 1/p & store it in the away 3. Apply product rule to generate three-address of characters. code by storing them in temporary variables. 2. Creade 3 counter variable for the count of 5:510'='E'\n'/SE \n'/S'\n'; words, lines & characters in the string. 3. Using for loop search for a second space

E/(E/);

4. In moin funct call yypause(). 5. Stop

Scanned with CamScanner

in the string & consecutively increment the

variable count for words.

Backend of Compiler

- 1. start,
- 2. Read the address code.
- 3. Check the operation in it & copy to pr variable
- 4, Print Mov & Variable R1.
- 5. Print operat" second variable R;
- 6. Print Mov R; result vaiable.
- 7. stop.

Prans

- 2) Lexical Analyses.
- 3) Calculator veing Lex.
- 1) counting vowels & Corsonants, Lox.
 - 5) Counting no: of words, land.
- 6) Intermediate code and generation
- 7) NFA to DFA.
- e) prom for constant propagation.
- 9) You specifican to recognize a valid authmetic prove
- 10) Backand of a Compiler.
- 11) First & Follow
- 12) Shiff reduce passer.