Scanned with CamScanner

conce the match is determined the start corresponding to the match is made available in the global character pto , yylend and its length in the global integer, y long" The action corresponding to the matched pattern the remaining ipis econned Sper another match -96 no match is found then the default rule is energled: the next char im if is considered pratched and copied to std ofp Source program derical analysis Leccical (scamming) Symbot tob Symtare analysis Syntare 019107 Trees . analysis sequence of stepp intermediate representation Conclusion Thus we have studied terical analyzer and implemented an application for Texical analyzer to count total number of words char and line etc

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ROLL:19

ASSIGNMENT 6

Write a program using Lex specifications to implement lexical analysis phase of compiler to count no. of words, lines and characters of given input file.

```
/*count.l program*/
% {
     #include<stdio.h>
     int wc=0,nc=0,lc=0,ch=0,dc=0;
% }
letter [A-Za-z]
digit [0-9]
%%
{digit}*
                     {nc++; dc=dc+yyleng;}
{letter}*
                     {wc++; ch=ch+yyleng;}
                     \{lc++;\}
\n
%%
int main()
     FILE *fp;
     fp=fopen("input.txt","r");
     yyin=fp;
     yylex();
     printf("\nWord Count=%d\n",wc);
     printf("Number Count=%d\n",nc);
     printf("Line Count=%d\n",lc);
     printf("Character Count=%d\n",ch);
     printf("Digit Count=%d\n",dc);
     fclose(fp);
     return 0;
INPUT:
/*input.txt*/
HELLO EVERYONE
MY SELF ANKITA BONDE FROM GESCOE
My RollNo is 19
***********************************
```

OUTPUT:

ankita@ankita-1011PX:~/Desktop/ankita_SPOS/Turn1/A3\$ lex count.l ankita@ankita-1011PX:~/Desktop/ankita_SPOS/Turn1/A3\$ gcc lex.yy.c - ankita@ankita-1011PX:~/Desktop/ankita_SPOS/Turn1/A3\$./a.out