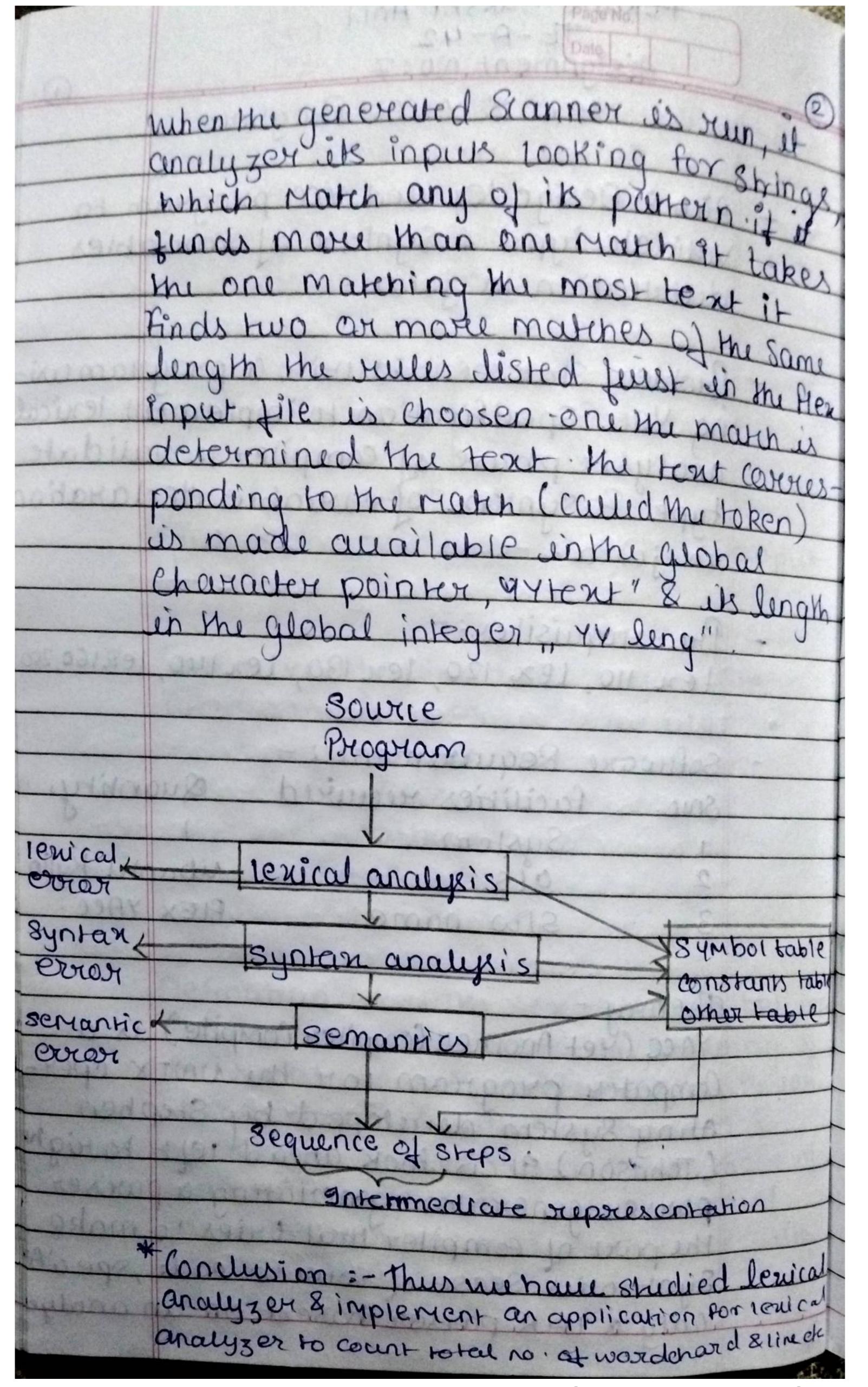
F	OKane Sakshi Anil TE-A-42 Assignment No: 6 LEX Program
- Air	2:- Design lex program to count no. of such sine & charcters of given ile
de	blem Statement: white a program- ing lex specification to implements vical analysis phase of compiler Count no of word line & character given input Fire.
PH	e requists: LEX Basics
The second secon	ftware Requirement: No facilities Quantify System Ols Whenty Kylin Slw name len Tool.
1 2 No 3	Jective: To understand lex concepts To implement lex program for of count To study about len & jana To know important about lexical
Ou ou	ow the 91P is matched & -



Assignment No. 06

Name:- Fokane Sakshi Anil

Std-Div:-TE-A

Roll No:-42

1. Code b3.l:

```
% {
int no_line=0; int
no_space=0; int
no_char=0; int
no_words=0;
#include<string.h>
% }
%%
([a-zA-Z])+ {no_words++; no_char+=strlen(yytext);}
[" "] {no_space++;}
["\n"] {no_line++;}
.;
%%
int yywrap(){
}
int main(int argc,char* argv[]){
yyin=fopen("test.txt","r");
  yylex();
  printf("Total Spaces %d\n",no_space);
printf("Total Words %d\n",no_words);
printf("Total Line %d\n",no_line);
no_char+=no_space;
  printf("Total Char %d\n",no_char);
```

```
fclose(yyin);
}
```

2. text.txt File:

// Content of text.txt File

The earliest foundations of what would become computer science predate the invention of the modern digital computer. Machines for calculating fixed numerical tasks such as the abacus have existed since antiquity, aiding in computations such as multiplication and division. Algorithms for performing computations have existed since antiquity, even before the development of sophisticated computing equipment.

Computer science, the study of computers and computing, including their theoretical and algorithmic foundations, hardware and software, and their uses for processing information. The discipline of computer science includes the study of algorithms and data structures, computer and network design, modeling data and information processes, and artificial intelligence. Computer science draws some of its foundations from mathematics and engineering and therefore incorporates techniques from areas such as queueing theory, probability and statistics, and electronic circuit design. Computer science also makes heavy use of hypothesis testing and experimentation during the conceptualization, design, measurement, and refinement of new algorithms, information structures, and computer architectures.

OUTPUT:

```
sagar-ravan@Sagar-HP:~/SPOSL/LexProgram$ lex b3.l
sagar-ravan@Sagar-HP:~/SPOSL/LexProgram$ gcc lex.yy.c
sagar-ravan@Sagar-HP:~/SPOSL/LexProgram$ ./a.out test.txt
Total Spaces 155
Total Words 157
Total Line 3
Total Char 1180
sagar-ravan@Sagar-HP:~/SPOSL/LexProgram$
```