**COMPILER DESIGN – CSA1465**

PROGRAM 1

%{

#include<stdio.h>

%}

%%

[A-Z]+[\t\n ] { printf("%s",yytext); }

. ;

%%

int main( )

{

printf("Enter some string with capital words in between\n");

yylex();

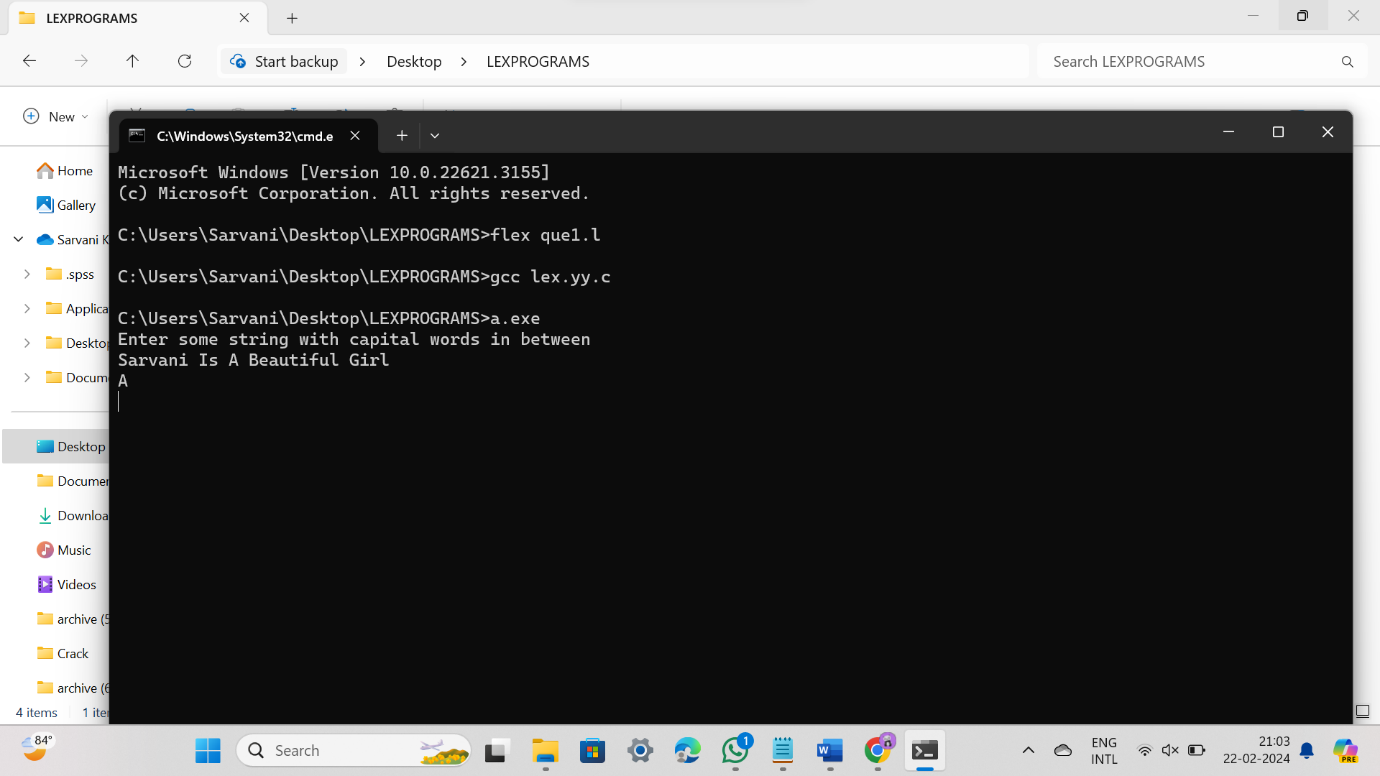
}

int yywrap( )

{

return 1;

}



PROGRAM 2

%{

#include<stdio.h>

%}

%%

[0-9]+|[0-9]\*\.[0-9]+ { printf("\n%s is DIGIT", yytext);}

.+ { printf("\n%s is NOT A DIGIT",yytext);}

%%

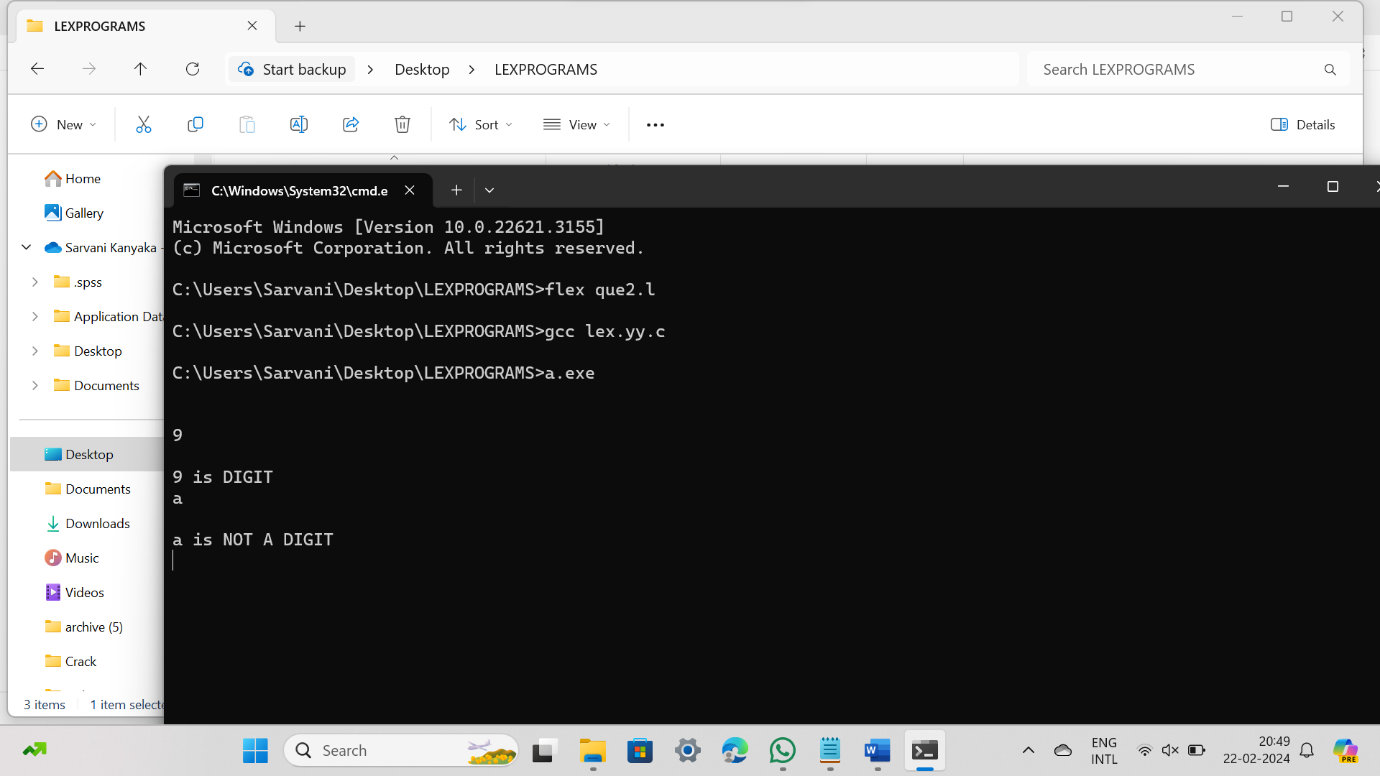
int yywrap(){}

int main()

{

yylex();

}



PROGRAM 3

%%

[1-9][0-9]{9} {printf("\nMobile Number Valid\n");}

.+ {printf("\nMobile Number Invalid\n");}

%%

int main()

{

printf("\nEnter Mobile Number : ");

yylex();

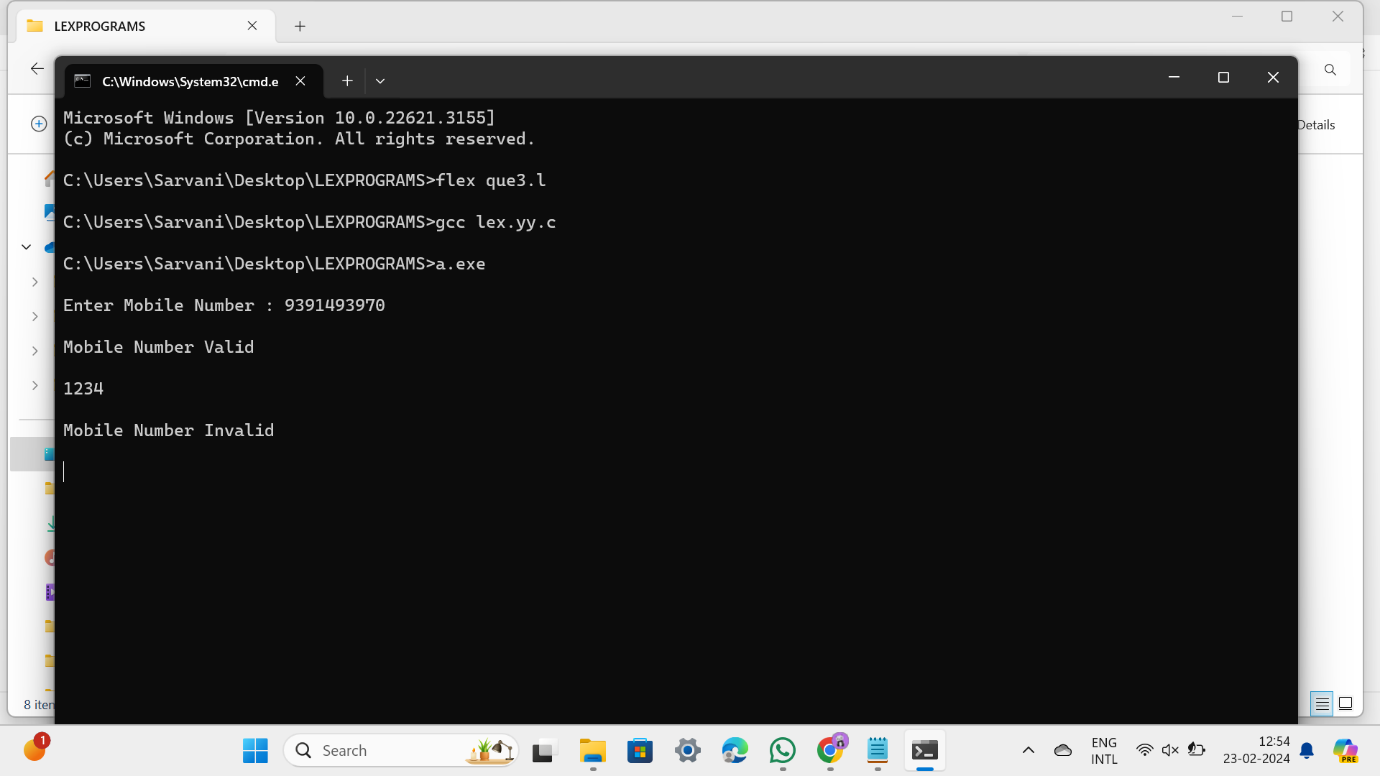
printf("\n");

return 0;

}

int yywrap()

{ }



PROGRAM 4

%{

int vcount=0;

int ccount=0;

%}

%%

[aeiouAEIOU] {vcount++;}

[a-z,A-Z] {ccount++;}

%%

int yywrap(){}

int main()

{

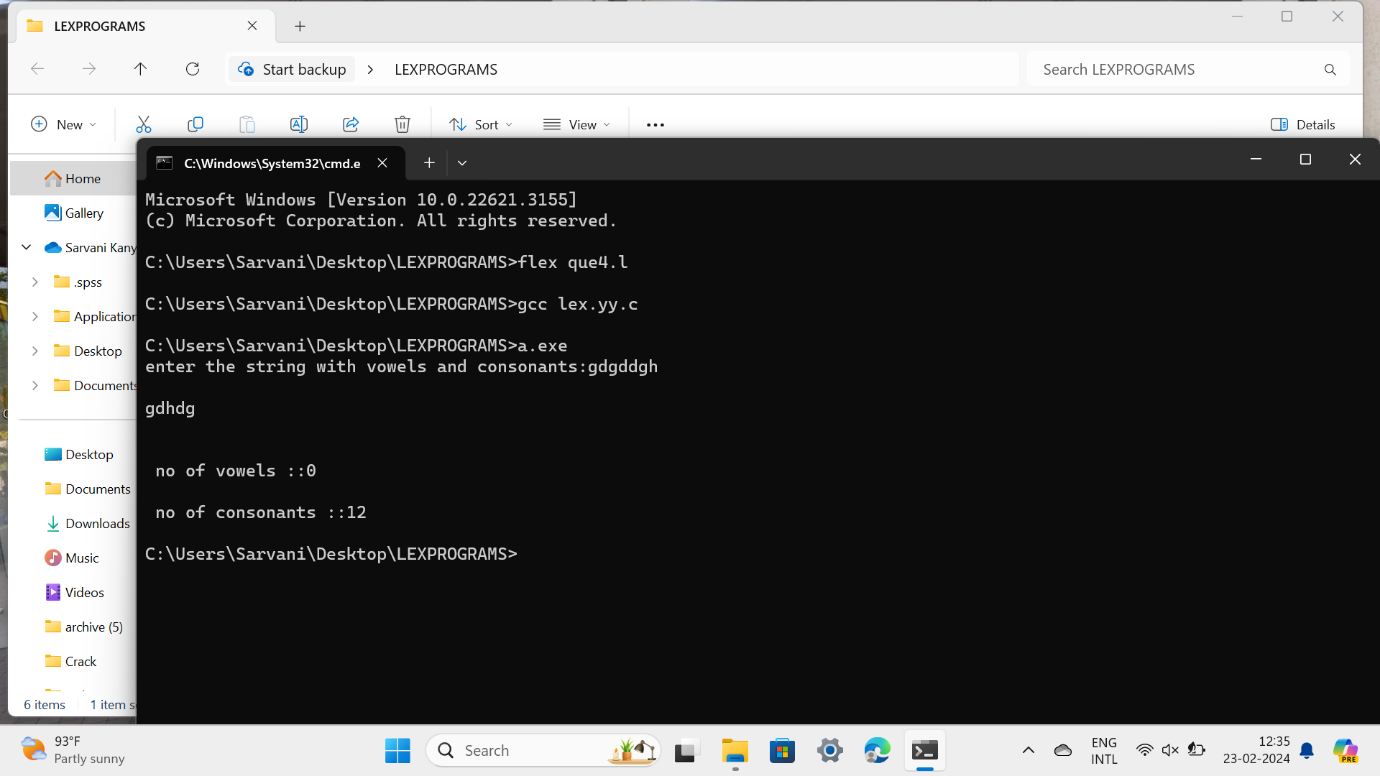
printf("enter the string with vowels and consonants:");

yylex();

printf("\n no of vowels ::%d \n",vcount);

printf("\n no of consonants ::%d \n",ccount);

}



PROGRAM 5

%{

#include <stdio.h>

%}

%option noyywrap

%%

int|float|char { printf("Keyword: %s\n", yytext); }

[a-zA-Z][a-zA-Z0-9]\* { printf("Identifier: %s\n", yytext); }

.|\n ; /\* Ignore other characters \*/

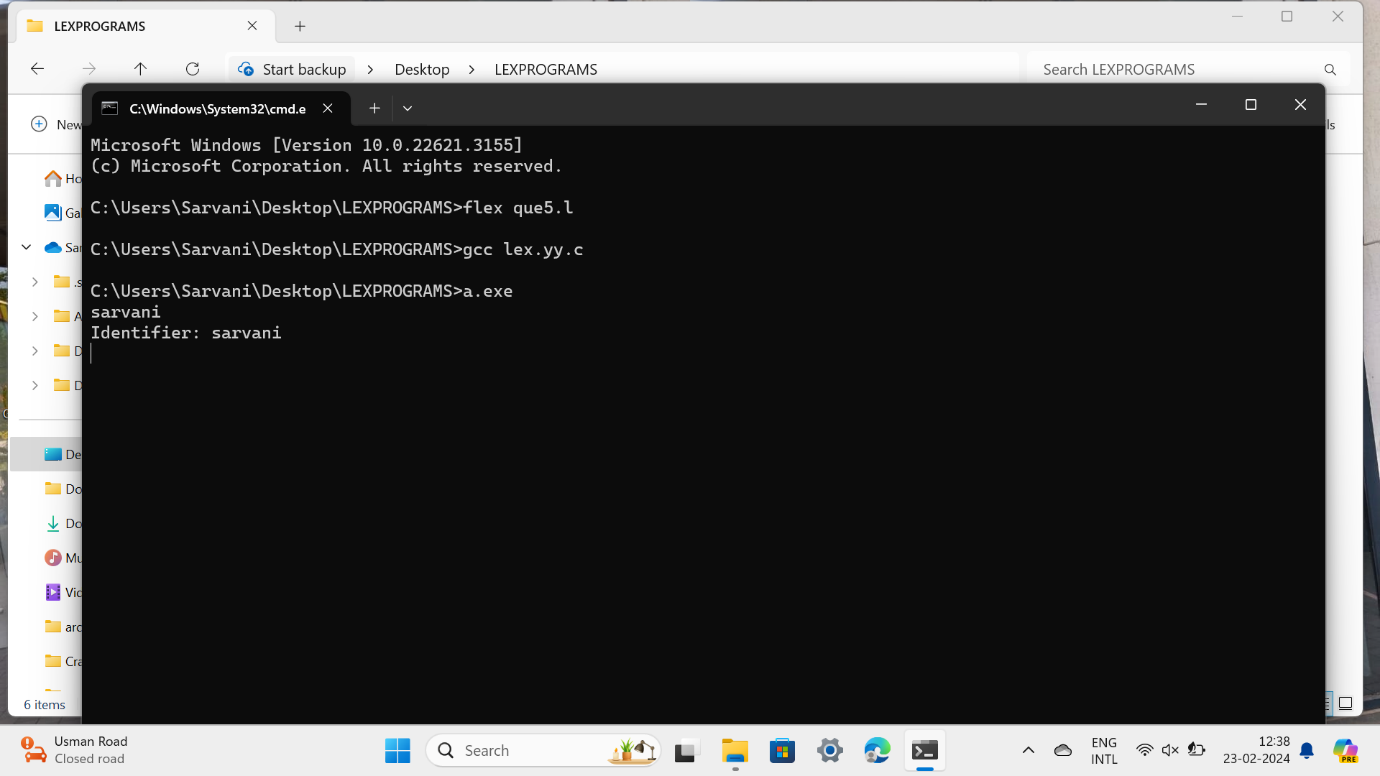
%%

int main() {

yylex();

return 0;

}



PROGRAM 6

%{

int positive\_no = 0, negative\_no = 0;

%}

%%

^[-][0-9]+ {negative\_no++;

printf("negative number = %s\n",

yytext);} // negative number

[0-9]+ {positive\_no++;

printf("positive number = %s\n",

yytext);} // positive number

%%

int yywrap(){}

int main()

{

yylex();

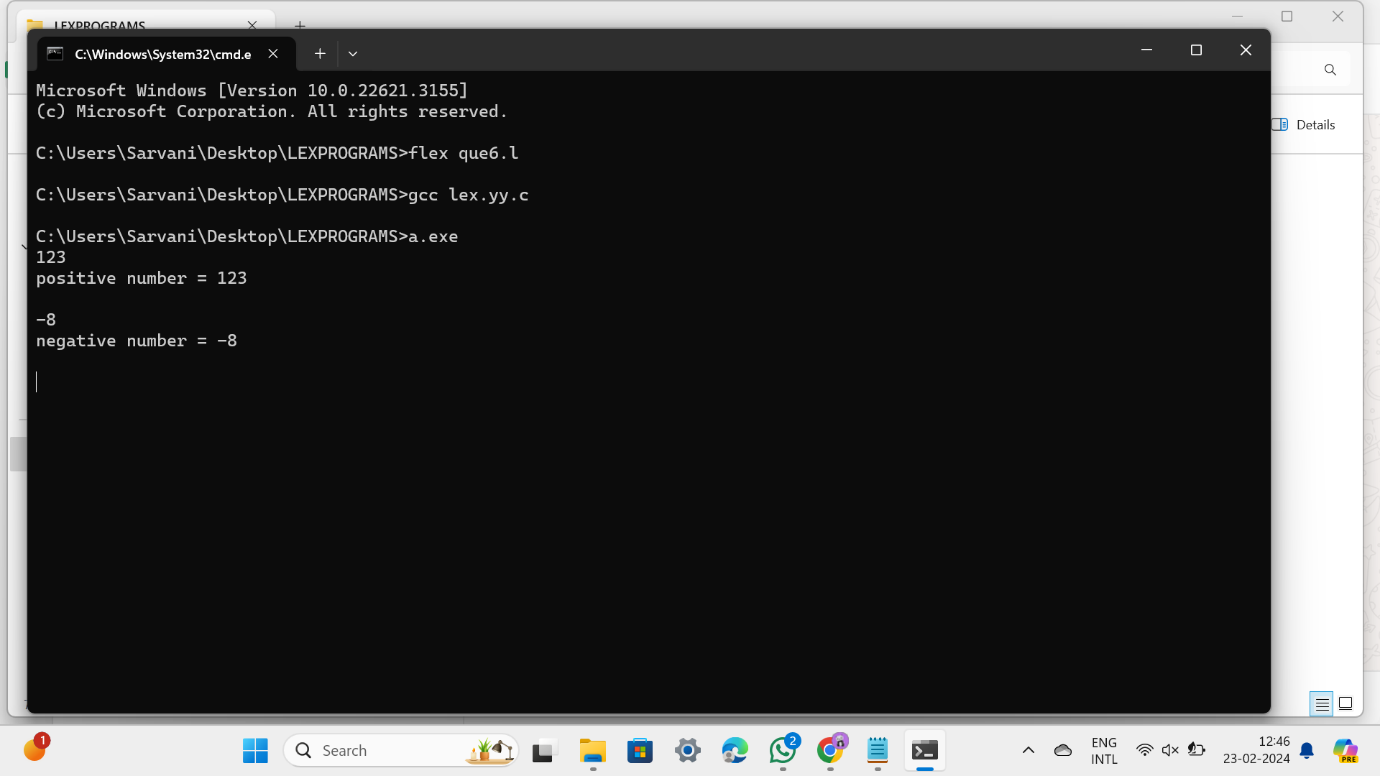
printf ("number of positive numbers = %d,"

"number of negative numbers = %d\n",

positive\_no, negative\_no);

return 0;

}



PROGRAM 7

[0-9]+ { printf("Number: %s\n", yytext); }

[a-zA-Z]+ { printf("Word: %s\n", yytext); }

.|\n;

%%

int main() {

yylex();

return 0;

}

PROGRAM 8

%%

[aeiouAEIOU][a-zA-Z]\* { printf("String starting with vowel: %s\n", yytext); }

.|\n;

%%

int main() {

yylex();

return 0;

}