

```
exe_1.l  exe_1.2
File Edit View

%%
[A-Z]+[\t\n] {printf("%s is a capital word",yytext);}
. ;
%%
int main()
{
printf("enter the string");
yylex();
}
int yywrap()
{
return 1;
}

Ln 13, Col 2  142 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt - a.exe exe_1.l
C:\cd lab>flex exe_1.l
C:\cd lab>gcc lex.yy.c
C:\cd lab>a.exe exe_1.l
enter the string PRadeepthi
^Z
C:\cd lab>HELLOW helloe
'HELLOW' is not recognized as an internal or external command,
operable program or batch file.
C:\cd lab>HELLOW
'HELLOW' is not recognized as an internal or external command,
operable program or batch file.
C:\cd lab>flex exe_1.l
C:\cd lab>gcc lex.yy.c
C:\cd lab>a.exe exe_1.l
enter the stringHELLO
HELLO
    is a capital word
HELLO world
HELLO
HELLO
    is a capital word
PRADEEPTHI
PRADEEPTHI
    is a capital wordankitha
ANKITHA
ANKITHA
    is a capital word|
```

```
exe_1.1  exe_1.2
File Edit View

%%
[0-9]+[\t\n] {printf("%s is a digit",yytext);}
. ;
%%
int main()
{
printf("enter the number");
yylex();
}
int yywrap()
{
return 1;
}

Ln 2, Col 44  135 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt - a.exe exe_1.2
01/27/2024 08:06 AM <DIR> Intel
07/11/2023 03:09 PM <DIR> logs
05/07/2022 10:54 AM <DIR> PerfLogs
02/21/2024 10:43 AM <DIR> Program Files
02/21/2024 10:55 AM <DIR> Program Files (x86)
08/31/2023 01:26 PM <DIR> TURBOC3
01/26/2024 10:08 PM <DIR> Users
01/26/2024 10:16 PM <DIR> Windows
0 File(s) 0 bytes
12 Dir(s) 193,310,224,384 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.2

C:\cd lab>gcc lec.yy.c
gcc: error: lec.yy.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.2
enter the number6
6
is a digit

prade

5
5
is a digit^Z

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.2
enter the number6
6
is a digit
```

```
exe_1.2 • exe.3.l x exe_1.4 exe_1.9 exe.33 • exe_3 + - □ ×
File Edit View ⚙️

%{
#include <stdio.h>
}%

%%
^[aeiouAEIOU][a-zA-Z]* printf("String starts with a vowel\n");
. printf("String does not start with a vowel\n");
%%

int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}

Ln 1, Col 3 | 247 characters | 100% | Windows (CRLF) | UTF-8
```

```
Command Prompt - a.exe exi × + ▾
Volume Serial Number is B857-0993

Directory of C:\cd lab

02/22/2024 01:13 PM <DIR> .
02/22/2024 01:12 PM 32,981 a.exe
02/21/2024 12:46 PM 151 ex 1.l
02/22/2024 01:13 PM 265 exe.3.l
02/21/2024 01:32 PM 147 exe_1.2
02/22/2024 01:04 PM 265 exe_1.3
02/22/2024 01:06 PM 265 exe_1.3.txt
02/21/2024 11:01 PM 324 exe_1.4
02/21/2024 01:18 PM 154 exe_1.l
02/22/2024 01:11 PM 37,666 lex.yy.c
                        9 File(s)      72,218 bytes
                        1 Dir(s)  192,954,437,632 bytes free

C:\cd lab>flex exe.3.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe.3.l
'a.exe.3.l' is not recognized as an internal or external command,
operable program or batch file.

C:\cd lab>a.exe exe.3.l
Ankitha
String starts with a vowel
```

```
exe_3  exe_6.l  exe_1.6.l  192224104.4.  exe_1.  X  +  -  □  X
File  Edit  View  ⚙️

%{
#include <stdio.h>
#include <string.h>

int vowels = 0;
int consonants = 0;
%}

%%
[a-zA-Z]    {
    if (strchr("aeiouAEIOU", yytext[0]) != NULL) {
        vowels++;
    } else {
        consonants++;
    }
}
.          ; // Ignore non-alphabetic characters
%%

int yywrap() {
    return 1;
}

int main() {
    yylex();
    printf("Number of vowels: %d\n", vowels);
    printf("Number of consonants: %d\n", consonants);
    return 0;
}

Ln 30, Col 1  512 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt  X  +  v

flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_1.6.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.6.l
12347
positive number = 12347

^Z
number of positive numbers = 1,number of negative numbers = 0

C:\cd lab>flex exe_1.4.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.4.l
pradeepthi

ankitha

^Z
Number of vowels: 7
Number of consonants: 10

C:\cd lab>
```

```
exe_1.6.l  192224104.4.  exe_1.4.l  192224104.5.  exe_1.  X
File Edit View
%{
#include <stdio.h>
%}

%%

"auto"|"break"|"case"|"char"|"const"|"continue"|"default"|"do"|"double"|"else"|"enum"|"extern"
|"float"|"for"|"goto"|"if"|"int"|"long"|"register"|"return"|"short"|"signed"|"sizeof"|"static"|"struct"|"switch"|"typedef"|"union"|"unsigned"|"void"|"volatile"|"while" {
    printf("Keyword: %s\n", yytext);
}

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

[ \t\n]+ {
    // Ignore whitespace
}

. {
    printf("Invalid token: %s\n", yytext);
}

%%

int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}

Ln 33, Col 1  571 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt - a.exe exe_1.6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_1.6.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.6.l
12347
positive number = 12347

^Z
number of positive numbers = 1,number of negative numbers = 0

C:\cd lab>flex exe_1.4.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.4.l
pradeepthi

ankitha

^Z
Number of vowels: 7
Number of consonants: 10

C:\cd lab>flex exe_1.5.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.5.l
auto
Keyword: auto
apple
Identifier: apple
```



```
exe_1.9  exe.33  exe_3  exe_6.l  exe_1. X  +  -  □  X
File  Edit  View  ⚙️

%{
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;
}
```

Ln 22, Col 1 | 412 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt - a.exe exi X  +  v  -  □  X

07/11/2023  03:09 PM  <DIR>      logs
05/07/2022  10:54 AM  <DIR>      PerfLogs
02/21/2024  10:43 AM  <DIR>      Program Files
02/21/2024  10:55 AM  <DIR>      Program Files (x86)
08/31/2023  01:26 PM  <DIR>      TURBOC3
01/26/2024  10:08 PM  <DIR>      Users
01/26/2024  10:16 PM  <DIR>      Windows
               0 File(s)      0 bytes
               12 Dir(s)  192,970,899,456 bytes free

C:\>cd cd lab

C:\cd lab>flex ex.6.l
flex: can't open ex.6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_6.l
flex: can't open exe_6.l

C:\cd lab>flex exe_1.6.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.6.l
12347
positive number = 12347

|
```

```
File Edit View

%{
#include <stdio.h>
int num_count = 0;
int word_count = 0;
int yywrap(void) { return 1; } // Adjusted yywrap function definition
%}

DIGITS [0-9]+
WORDS [a-zA-Z]+

%%

{DIGITS} { printf("Number: %s\n", yytext); num_count++; }
{WORDS} { printf("Word: %s\n", yytext); word_count++; }
. ;

%%

int main() {
    yylex();
    printf("Total numbers: %d\n", num_count);
    printf("Total words: %d\n", word_count);
    return 0;
}

Ln 25, Col 1 443 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt

C:\cd lab>a.exe exe_1.4.l
pradeepthi

ankitha

^Z
Number of vowels: 7
Number of consonants: 10

C:\cd lab>flex exe_1.5.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.5.l
auto
Keyword: auto
apple
Identifier: apple
^Z

C:\cd lab>flex exe_1.7.l
flex: can't open exe_1.7.l

C:\cd lab>flex exe_1.7.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.7.l
ankitha
Word: ankitha

9393
Number: 9393

^Z
Total numbers: 1
Total words: 1

C:\cd lab>
```



```
File Edit View

%{
#include <stdio.h>
}%

%%

^[a-zA-Z]+:\\\\[a-zA-Z0-9\\.\\-]+\\. [a-zA-Z]{2,}(\\|\\S*)?$    { printf("Valid URL: %s
\\n",yytext); }
.    ;

%%_1.10.1
int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}
```

Ln 10, Col 1 | 217 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt - a.exe exe_1.12.l x + v

C:\>cd cd lab

C:\cd lab>flex exe_1.12.l
flex: can't open exe_1.12.l

C:\cd lab>^A
'^' is not recognized as an internal or external command,
operable program or batch file.

C:\cd lab>flex exe_1.12.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>flex exe_1.10.l
flex: can't open exe_1.10.l

C:\cd lab>flex exe_1.10.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.10.l
pradeepthi5786

https://www.example.com
Valid URL: https://www.example.com
```

```
File Edit View

%{
#include <stdio.h>
int max_length = 0;
}%

%%
[a-zA-Z]+ { if (yyleng > max_length) max_length = yyleng; }
.
;
%%
int yywrap() {
return 1;
}

int main() {
yylex();
printf("Length of the longest word: %d\n", max_length);
return 0;
}
```

Ln 1, Col 1 | 264 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>flex exe_1.10.l
flex: can't open exe_1.10.l

C:\cd lab>flex exe_1.10.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.10.l
pradeepthi5786

https://www.example.com
Valid URL: https://www.example.com

^Z

C:\cd lab>flex exe_1.9.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.9.l
pradeepthi

yeddulaankitha

^Z
Length of the longest word: 14

C:\cd lab>
```

```
math.l  digitornot.l  dobvalidornot.l
File Edit View
%%
((([0-9])|([1-2][0-9])|(3[0-1]))\\((0[1-9])|(1[0-2]))\\(19[0-9]{2}|2[0-9]{3})) printf("Valid
DoB");
.* printf("Invalid DoB");
%%

int main()
{
    yylex();
    return 0;
}
int yywrap()
{}

Ln 14, Col 1  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt - a.exe do
17-05-2023 10:27 <DIR> Program Files
07-08-2023 18:20 <DIR> WindowsApps
1 File(s) 1,226,215 bytes
3 Dir(s) 152,362,115,072 bytes free

E:\>cd lex lab prgm

E:\lex lab prgm>dir
Volume in drive E is New Volume
Volume Serial Number is FE45-A672

Directory of E:\lex lab prgm

30-11-2023 13:03 <DIR> .
30-11-2023 13:01 63,392 a.exe
30-11-2023 13:00 183 digitornot.l
30-11-2023 13:03 198 dobvalidornot.l
30-11-2023 13:04 38,375 lex.yy.c
30-11-2023 12:44 367 math.l
5 File(s) 102,515 bytes
1 Dir(s) 152,362,115,072 bytes free

E:\lex lab prgm>flex dobvalidornot.l

E:\lex lab prgm>gcc lex.yy.c

E:\lex lab prgm>a.exe dobvalidornot.l
20/12/1987
Valid DoB
|
```

```
File Edit View

%{
#include <stdio.h>
%}

%%

[a-zA-Z]+ { printf("Word: %s\n", yytext); }
"==" { printf("Relational Operator: %s\n", yytext); }
"<" { printf("Relational Operator: %s\n", yytext); }
">" { printf("Relational Operator: %s\n", yytext); }
"<=" { printf("Relational Operator: %s\n", yytext); }
">=" { printf("Relational Operator: %s\n", yytext); }
"!=" { printf("Relational Operator: %s\n", yytext); }
. ; /* Ignore other characters */

%%

int yywrap() {
    return 1;
}

int main() {
    yylex();
    return 0;
}
```

Ln 25, Col 1 | 598 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt

02/22/2024 01:36 PM <DIR> cd lab
07/11/2023 01:05 PM <DIR> Dell
02/21/2024 10:54 AM <DIR> Flex Windows
01/27/2024 08:06 AM <DIR> Intel
07/11/2023 03:09 PM <DIR> logs
05/07/2022 10:54 AM <DIR> PerfLogs
02/21/2024 10:43 AM <DIR> Program Files
02/21/2024 10:55 AM <DIR> Program Files (x86)
08/31/2023 01:26 PM <DIR> TURBOC3
01/26/2024 10:08 PM <DIR> Users
01/26/2024 10:16 PM <DIR> Windows
0 File(s) 0 bytes
12 Dir(s) 192,798,126,080 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.12.l
flex: can't open exe_1.12.l

C:\cd lab>^A
'^' is not recognized as an internal or external command,
operable program or batch file.

C:\cd lab>flex exe_1.12.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.12.l
pradeepthi
Word: pradeepthi

>
Relational Operator: >

=

^Z

C:\cd lab>
```

```
File Edit View

%{
#include <stdio.h>
#include <stdlib.h>
%}

%%
"<" [^>]+ ">" { printf("HTML tag: %s\n", yytext); }
. { /* Ignore other characters */ }
%%

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);
    return 0;
}
```

Ln 29, Col 1 | 524 characters | 100% | Windows (CRLF) | UTF-8

```
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>cd/

C:\>dir
Volume in drive C has no label.
Volume Serial Number is B857-0993

Directory of C:\

09/02/2023  10:51 PM  <DIR>          altera
02/23/2024  01:14 PM  <DIR>          cd lab
07/11/2023  01:05 PM  <DIR>          Dell
02/21/2024  10:54 AM  <DIR>          Flex Windows
01/27/2024  08:06 AM  <DIR>          Intel
07/11/2023  03:09 PM  <DIR>          logs
05/07/2022  10:54 AM  <DIR>          PerfLogs
02/21/2024  10:43 AM  <DIR>          Program Files
02/21/2024  10:55 AM  <DIR>          Program Files (x86)
08/31/2023  01:26 PM  <DIR>          TURBOC3
01/26/2024  10:08 PM  <DIR>          Users
01/26/2024  10:16 PM  <DIR>          Windows
               0 File(s)              0 bytes
               12 Dir(s)  192,729,092,096 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.17.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.17.l
Number of characters: 696
Number of lines: 43
Number of words: 103

C:\cd lab>
```



```
exe_1.9.l  exe_1.13.l  exe_1.14.l  exe_1.17.l  exe_1.  X  +  -  □  X
File  Edit  View  ⚙️

%{
#include <stdio.h>
#include <stdlib.h>
%}

%%
[0-9]+      { printf("Constant: %s\n", yytext); }
-?[0-9]+\.[0-9]+ { printf("Constant: %s\n", yytext); }
-?[0-9]+    { printf("Constant: %s\n", yytext); }
.          { /* Ignore other characters */ }
%%

int yywrap() {
    return 1; // Indicate that there are no more input streams
}

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);
    return 0;
}

Ln 35, Col 1  719 characters  100%  Windows (CRLF)  UTF-8
```

```
Command Prompt  X  +  v

C:\cd lab>gcc lex.yy.c
C:\cd lab>a.exe exe_1.18.l

Constant: 0
Constant: -9

Constant: 0
Constant: -9
Constant: 0
Constant: -9

Constant: 0
Constant: -9

Constant: 1

Constant: 2
Constant: 0
Constant: 1

Constant: 1
```

```
File Edit View
#include <stdio.h>
#include <stdlib.h>
int macro_count = 0;
int header_count = 0;
%}

%%
#define { ++macro_count; }
#include { ++header_count; }
. { /* Ignore other characters */ }
%%

int yywrap() {
    return 1; // Indicate that there are no more input streams
}

int main(int argc, char *argv[]) {
    if(argc != 2) {
        printf("Usage: %s <input_file>\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if(input_file == NULL) {
        perror("Error opening input file");
        return 1;
    }

    yyin = input_file;
    yylex();

    fclose(input_file);

    printf("Number of Macros defined: %d\n", macro_count);
    printf("Number of Header files included: %d\n", header_count);

    return 0;
}

Ln 40, Col 1 784 characters 100% Windows (CRLF) UTF-8
```

```
Command Prompt

Number of Macros defined: 1
Number of Header files included: 3

C:\cd lab>
```

```
print_html_t.exe_1.13.l.exe_1.1.exe_1.21.exe_1. x
File Edit View
"//" { comment_lines_count++; }
. { fprintf(output_file, "%s", yytext); }
%%

int main(int argc, char *argv[]) {
    if (argc != 3) {
        printf("Usage: %s input_file output_file\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if (!input_file) {
        perror("Error opening input file");
        return 1;
    }

    output_file = fopen(argv[2], "w");
    if (!output_file) {
        perror("Error opening output file");
        fclose(input_file);
        return 1;
    }

    // Set the input file for the lexer
    yyin = input_file;

    // Call the lexer
    yylex();

    // Close files
    fclose(input_file);
    fclose(output_file);

    printf("Number of comment lines: %d\n", comment_lines_count);

    return 0;
}

Ln 29, Col 24 | 877 characters | 100% | Windows (CRLF) | UTF-8
```

```
Command Prompt
Microsoft Windows [Version 10.0.22621.3007]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DELL>cd/

C:\>dir
Volume in drive C has no label.
Volume Serial Number is B857-0993

Directory of C:\

09/02/2023  10:51 PM  <DIR>          altera
02/23/2024  09:54 PM  <DIR>          cd lab
07/11/2023  01:05 PM  <DIR>          Dell
02/21/2024  10:54 AM  <DIR>          Flex Windows
01/27/2024  08:06 AM  <DIR>          Intel
07/11/2023  03:09 PM  <DIR>          logs
05/07/2022  10:54 AM  <DIR>          PerfLogs
02/21/2024  10:43 AM  <DIR>          Program Files
02/21/2024  10:55 AM  <DIR>          Program Files (x86)
08/31/2023  01:26 PM  <DIR>          TURBOC3
01/26/2024  10:08 PM  <DIR>          Users
01/26/2024  10:16 PM  <DIR>          Windows
               0 File(s)              0 bytes
               12 Dir(s)  192,249,139,200 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.22.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.22.l
Usage: a.exe input_file output_file

C:\cd lab>
```

```
File Edit View
"#" { printf("Preprocessor Directive: %s\n", yytext); }
#include { printf("Header File: %s\n", yytext); }
"void" { printf("Data Type: %s\n", yytext); }
"int" { printf("Data Type: %s\n", yytext); }
"printf" { printf("Function Call: %s\n", yytext); }
"(" { printf("Left Parenthesis: %s\n", yytext); }
")" { printf("Right Parenthesis: %s\n", yytext); }
"=" { printf("Assignment Operator: %s\n", yytext); }
";" { printf("Semicolon: %s\n", yytext); }
\"[^\n]*\" { printf("String Literal: %s\n", yytext); }
[0-9]+ { printf("Integer Constant: %s\n", yytext); }
[a-zA-Z_][a-zA-Z0-9_]* { printf("Identifier: %s\n", yytext); }
. { printf("Unrecognized Token: %s\n", yytext); }

%%

int main(int argc, char *argv[]) {
    if (argc != 2) {
        printf("Usage: %s input_file\n", argv[0]);
        return 1;
    }

    FILE *input_file = fopen(argv[1], "r");
    if (!input_file) {
        perror("Error opening input file");
        return 1;
    }

    // Set the input file for the lexer
    yyin = input_file;

    // Call the lexer
    yylex();

    // Close the file
    fclose(input_file);

    return 0;
}
```

Ln 47, Col 1 1,227 characters 100% Windows (CRLF) UTF-8

```
Command Prompt
02/21/2024 10:54 AM <DIR> Flex Windows
01/27/2024 08:06 AM <DIR> Intel
07/11/2023 03:09 PM <DIR> logs
05/07/2022 10:54 AM <DIR> PerfLogs
02/21/2024 10:43 AM <DIR> Program Files
02/21/2024 10:55 AM <DIR> Program Files (x86)
08/31/2023 01:26 PM <DIR> TURBOC3
01/26/2024 10:08 PM <DIR> Users
01/26/2024 10:16 PM <DIR> Windows
0 File(s) 0 bytes
12 Dir(s) 192,249,139,200 bytes free

C:\>cd cd lab

C:\cd lab>flex exe_1.22.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.22.l
Usage: a.exe input_file output_file

C:\cd lab>flex exe_1.23.l

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.23.l
Unrecognized Token: %
Unrecognized Token: {

Preprocessor Directive: #
Header File: include
Unrecognized Token:
Unrecognized Token: <
Identifier: stdio
Unrecognized Token: .
Identifier: h
Unrecognized Token: >

Unrecognized Token: %
```


| | | | | |
|--------------|------------------|------|----------------|-------|
| Ln 75, Col 1 | 1,641 characters | 100% | Windows (CRLF) | UTF-8 |
|--------------|------------------|------|----------------|-------|

```
exe_1.25.l  exe_1.26  exe_1.27  exe_1.28  exe_1. x
File Edit View
%{
#include <stdio.h>
int whitespace_count = 0;
int newline_count = 0;
int yywrap() { return 1; }
}%

%%

[ \t]    { whitespace_count++; }
\n       { newline_count++; }

.        ; // Ignore other characters

%%

int main() {
    yylex();
    printf("Number of whitespace characters: %d\n", whitespace_count);
    printf("Number of newline characters: %d\n", newline_count);
    return 0;
}
```

Ln 22, Col 2 | 397 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt
exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.28.c

C:\cd lab>gcc lex.yy.c
exe_1.28.c: In function 'yylex':
exe_1.28.c:15:8: error: expected expression before 'void'
exe_1.28.c:15:8: error: too many arguments to function 'yywrap'
lex.yy.c:382:12: note: declared here
exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.29.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o:lex.yy.c:(.text+0x2cf): undefined
reference to 'yywrap'
C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o:lex.yy.c:(.text+0x9af): undefined
reference to 'yywrap'
c:/flex/windows/gcc/bin/../../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.
exe: C:\Users\DELL\AppData\Local\Temp\ccCWCBE1.o: bad reloc address 0x4a8 in
section '.rdata'
c:/flex/windows/gcc/bin/../../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.
exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.29.c

C:\cd lab>gcc lex.yy.c
lex.yy.c:377:12: warning: prototype for 'yywrap' follows non-prototype defin
ition [enabled by default]

C:\cd lab>a.exe exe_1.29.c
she is watching moble since      2 hours
she is till watching
^Z
Number of whitespace characters: 13
Number of newline characters: 2

C:\cd lab>
```

```
File Edit View

%{
#include <stdio.h>
#include <string.h>
int valid_identifiser = 0;
%}

%option noyywrap

%%

[a-zA-Z][a-zA-Z0-9]* { valid_identifiser = 1; }
. ; // Ignore other characters

%%

int main() {
    char identifier[100];
    printf("Enter an identifier: ");
    scanf("%s", identifier);
    yy_scan_string(identifier);
    yylex();
    if (valid_identifiser) {
        printf("The identifier \"%s\" is valid.\n", identifier);
    } else {
        printf("The identifier \"%s\" is not valid.\n", identifier);
    }
    return 0;
}
```

Ln 29, Col 1 | 550 characters | 100% | Windows (CRLF) | UTF-8

```
Command Prompt

exe_1.28.c:15:14: error: expected ';' before '{' token

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o:lex.yy.c:(.text+0x2be): undefined reference to `yywrap'
C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o:lex.yy.c:(.text+0x99e): undefined reference to `yywrap'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: C:\Users\DELL\AppData\Local\Temp\ccyMcdi8.o: bad reloc address 0x4c0 in section `.rdata'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c
C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o:lex.yy.c:(.text+0x2be): undefined reference to `yywrap'
C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o:lex.yy.c:(.text+0x99e): undefined reference to `yywrap'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: C:\Users\DELL\AppData\Local\Temp\ccciWsrBo.o: bad reloc address 0x4c0 in section `.rdata'
c:/flex/windows/gcc/bin/../lib/gcc/mingw32/4.7.2/../../../../mingw32/bin/ld.exe: final link failed: Invalid operation
collect2.exe: error: ld returned 1 exit status

C:\cd lab>flex exe_1.30.c

C:\cd lab>gcc lex.yy.c

C:\cd lab>a.exe exe_1.30.c
Enter an identifier: they
The identifier "they" is valid.

C:\cd lab>
```



```
File Edit View
ex22.l CDex22input CDex23.l CDex2
%{
%}
[a-z.0-9]+@[a-z]+(.com|.in) {printf("\n valid \n")}
.+ {printf("\n invalid \n");}

%%
int yywrap()
{}
int main()
{
printf("\n enter:");
yylex();
}
```

CSA14 - List_of_experiments[2] - Read-Only - Compatibility Mode - Word

5. Write a LEX program to identify the capital words from the given input

4. Write a LEX Program to check the email address is valid or not.

Page 4 of 5 7 of 1265 words Focus 100%

Ln 14, Col 1 100% Windows (CRLF) UTF-8

```
Command Prompt - a.exe
30-11-2023 10:56 340 CDex18.l
30-11-2023 10:57 114 CDex18input.c
30-11-2023 11:00 321 CDex19.l
30-11-2023 11:01 89 CDex19input.html
30-11-2023 12:19 206 CDex20.l
30-11-2023 12:19 116 CDex20input.c
30-11-2023 16:36 265 CDex21.l
30-11-2023 16:40 102 CDex21input.l
30-11-2023 16:52 447 CDex22.l
30-11-2023 16:53 198 CDex22input.c
30-11-2023 17:01 170 CDex23.l
30-11-2023 17:05 198 CDex24.l
30-11-2023 17:44 37,877 lex.yy.c
29-11-2023 09:24 338 macro.l
29-11-2023 09:25 114 macro_input.c
21 File(s) 75,388 bytes
1 Dir(s) 397,624,315,904 bytes free

C:\lex lab>lex CDex24.l

C:\lex lab>gcc lex.yy.c

C:\lex lab>a.exe
babitha@gmail.com

valid
valid

Page 56 of 69 5853 words Focus 100%
```