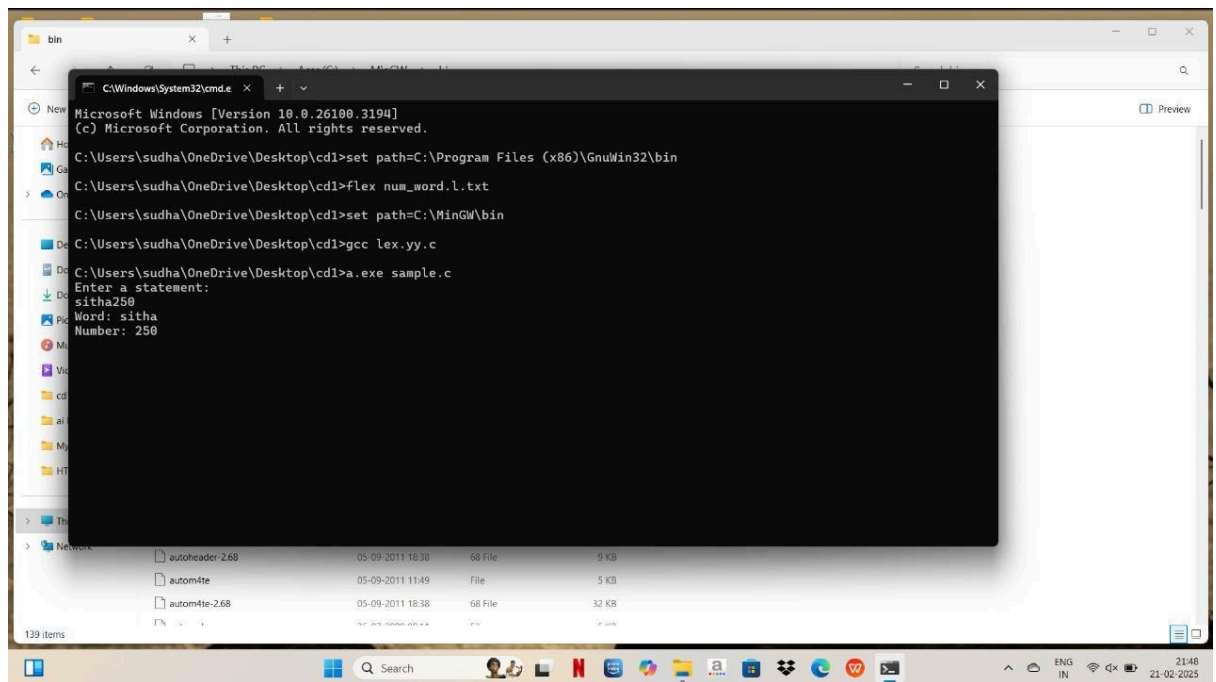


## L

30. Write a LEX program to recognise numbers and words in a statement. Pooja is a small girl of age 3 always fond of games. Due to the pandemic, she was not allowed to play outside. So her mother designs a gaming event by showing a flash card. Pooja has to separate the numbers in one list and words in another list shown in the flash card.



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex num_word.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter a statement:
sitha250
Word: sitha
Number: 250
```

31. Write a LEX program to identify and count positive and negative numbers.

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex count_pos_neg.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter numbers in a statement:
54 -84 -6 -9 6 5
Positive Number: 54
Negative Number: -84
Negative Number: -6
Negative Number: -9
Positive Number: 6
Positive Number: 5

```

32.A networking company wants to validate the URL for their clients. Write a LEX program to implement the same.

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex url.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter a URL to validate (Ctrl+D to stop):
https://www.bing.com/search?q=chat+gpt&gs_lcrp=EgRlZGdlKgEIAx...BFGMIDMgcIAhBFGMIDMgcIAx...BFGMIDMgcIBBBFGMIDMgcIBhBFGMIDMgcIBx...BFGMIDMgcENMTc4MDc5MjgzajBqMagCCLACAQ&FORM=ANNTA1&PC=ACTS
Valid URL: https://www.bing.com/search?q=chat+gpt&gs_lcrp=EgRlZGdlKgEIAx...BFGMIDMgcIAhBFGMIDMgcIAx...BFGMIDMgcIBBBFGMIDMgcIBhBFGMIDMgcIBx...BFGMIDMgcENMTc4MDc5MjgzajBqMagCCLACAQ&FORM=ANNTA1&PC=ACTS

```

33.School management wants to validate DOB of all students. Write a LEX program to implement it.

```

C:\Windows\System32\cmd.exe
C:\Users\sudha\OneDrive\Desktop\cd1>flex addline.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
i am studying in saveetha college
i am studying in saveetha college
^Z
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
^Z
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex dob.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter DOB (DD-MM-YYYY or DD/MM/YYYY):
08-12-2006
Valid DOB: 08-12-2006

```

34. Write a LEX program to check whether the given input is digit or not.

```

C:\Windows\System32\cmd.exe
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Number of characters: 284
Number of lines: 14
Number of words: 39
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex digit.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter characters to check (Press Ctrl+D to stop input):
4 5 2 5 4 1 5
Digit: 4
Not a Digit:
Digit: 5
Not a Digit:
Digit: 2
Not a Digit:
Digit: 5
Not a Digit:
Digit: 4
Digit: 1
Not a Digit:
Digit: 5
Not a Digit:

```

35. A School student was asked to do basic mathematical operations. Implement a LEX program to implement the same.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3190]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex mathematicaloperations.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter a mathematical expression:
a+b=c
a Plus
```

36. Write a LEX program to accept string starting with vowel.

```
C:\Windows\System32\cmd.exe
^Z
Number of Macros: 1
Number of Header files: 0

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex starting_vowel.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter strings (Ctrl+D to stop):
sudharshanreddy from cse depa
Rejected: sudharshanreddy
Rejected: from
Rejected: cse
Rejected: depa
^D
^Z

C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter strings (Ctrl+D to stop):
apple
Accepted: apple
```

37. Write a LEX program to find the length of the longest word

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex length.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>i am from andhra
'i' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter input text:
i am from andhra
^Z
Length of the longest word: 6
C:\Users\sudha\OneDrive\Desktop\cd1>

```

38. Write a LEX program to

```

C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex frequency.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter a sentence: i am b sudharshanreddy from cse dep and i am from
Enter the word to count: am
The word 'am' appeared 2 times.
C:\Users\sudha\OneDrive\Desktop\cd1>

```

count the frequency of the given word in a given sentence.

39. Write a LEX code to replace a word with another word in a file.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex anotherword.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter text:
i am from andhra
i am from andhra^Z
C:\Users\sudha\OneDrive\Desktop\cd1>
```

40. Write a LEX program to recognize a word and relational operator.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.26100.3194]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex frequency.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
Enter a sentence: i am b sudharshanreddy from cse dep and i am from
Enter the word to count: am
The word 'am' appeared 2 times.

C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\sudha\OneDrive\Desktop\cd1>flex recognize.l.txt
C:\Users\sudha\OneDrive\Desktop\cd1>set path=C:\MinGW\bin
C:\Users\sudha\OneDrive\Desktop\cd1>gcc lex.yy.c
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
^Z
C:\Users\sudha\OneDrive\Desktop\cd1>a.exe sample.c
i am sudharshan
WORD: i
WORD: am
WORD: sudharshan
```