

Capital word:

```
Windows PowerShell X Windows PowerShell X Command Prompt - a X +
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex 3.l.txt
"3.l.txt", line 2: bad character: #
"3.l.txt", line 2: unknown error processing section 1
"3.l.txt", line 2: unknown error processing section 1
"3.l.txt", line 2: bad character: <
"3.l.txt", line 2: unknown error processing section 1
"3.l.txt", line 2: bad character: .
"3.l.txt", line 2: unknown error processing section 1
"3.l.txt", line 2: bad character: >
"3.l.txt", line 3: bad character: %
"3.l.txt", line 3: bad character: }

C:\Users\kullu>flex al.l.txt

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
Enter the input string:
k ASHOK
Capital word: ASHOK
```

Email:

```
Windows PowerShell X Windows PowerShell X Command Prompt - a X +
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex 2.l.txt

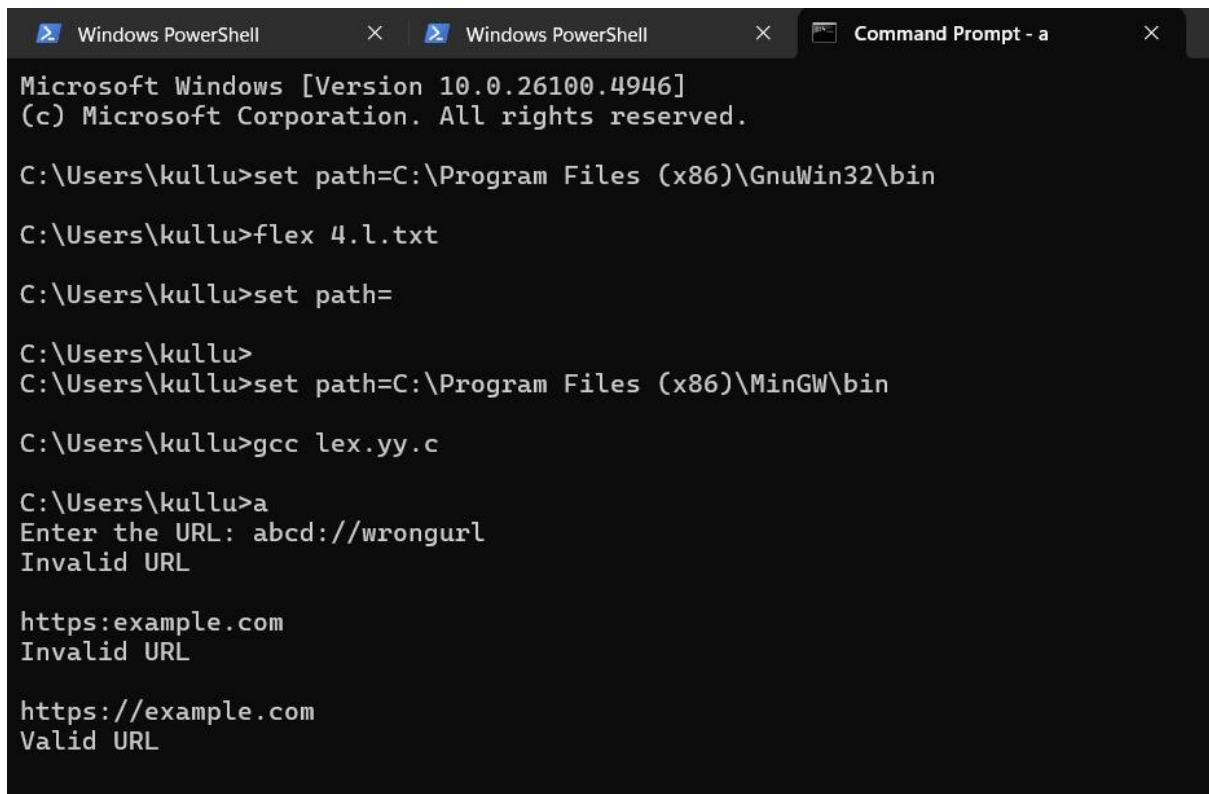
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
Enter the mail: as
It is not valid

ashok@gmail.com
It is valid
```

Url:



```
Windows PowerShell
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex 4.l.txt

C:\Users\kullu>set path=

C:\Users\kullu>
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

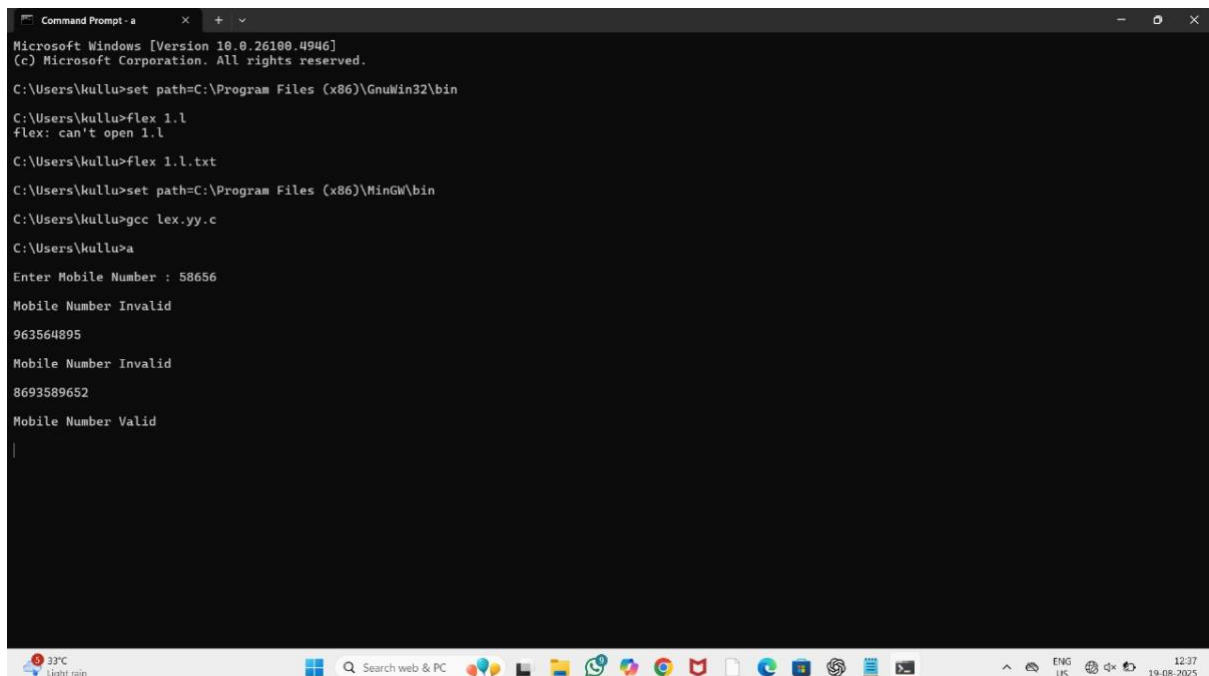
C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
Enter the URL: abcd://wrongurl
Invalid URL

https:example.com
Invalid URL

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

Mobile number:



```
Command Prompt - a
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex 1.l
flex: can't open 1.l

C:\Users\kullu>flex 1.l.txt

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
Enter Mobile Number : 58656
Mobile Number Invalid
963564895
Mobile Number Invalid
8693589652
Mobile Number Valid
|
```

Identifiers and keywords:

```
Windows PowerShell X Windows PowerShell X Command Prompt - a
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>key.l.txt

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
if
Keyword: if
a
Identifier: a
|
```

Count of vowels and consnats:

```
Command Prompt X + v
Microsoft Windows [Version 10.0.26100.4946]
(c) Microsoft Corporation. All rights reserved.

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex count.l.txt

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
Enter the string of vowels and consonants:
my name is ashok

hello

^Z
Number of vowels are: 7
Number of consonants are: 11
```

Header files:

```
Command Prompt

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex headers_files.l.txt

C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

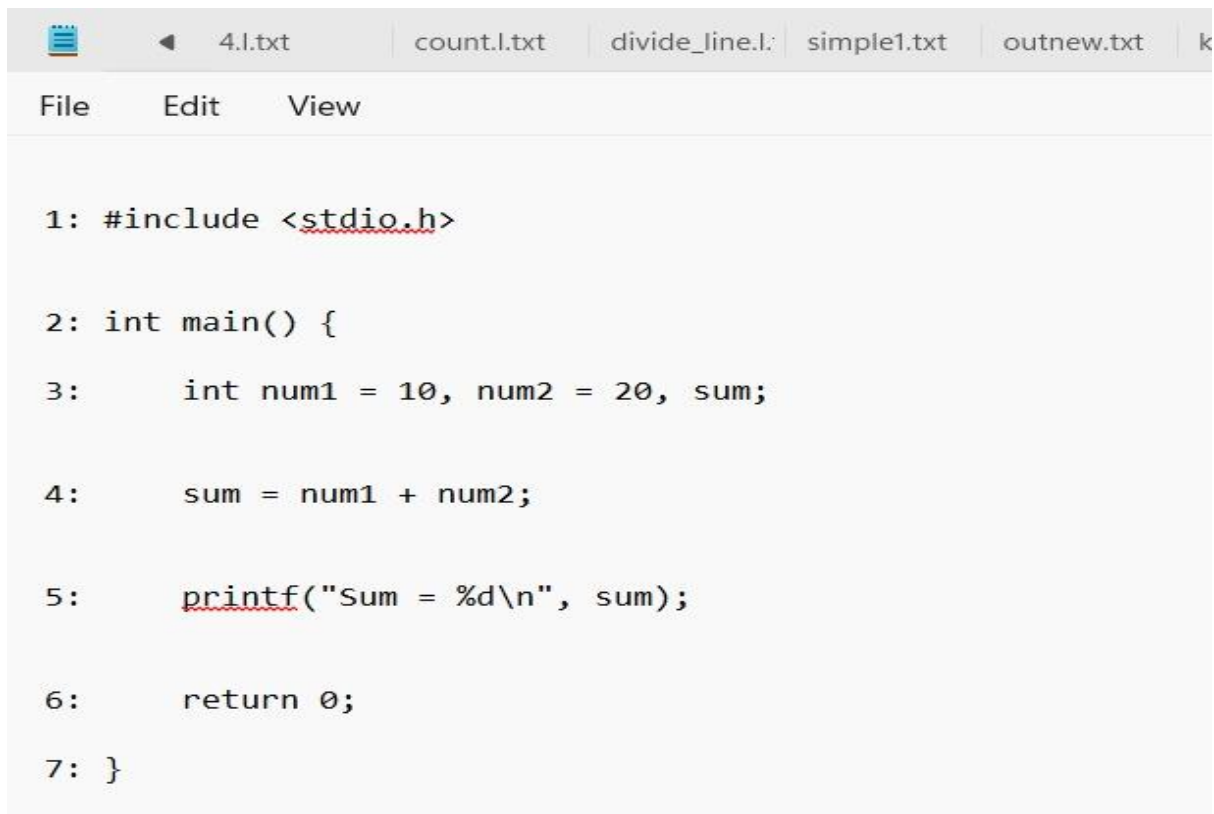
C:\Users\kullu>a
#include <stdio.h>
    <stdio.h>
#include <stdlib.h>
    <stdlib.h>

#define PI 3.14
    PI 3.14
#define MAX 100
    MAX 100

int main() {
int main() {
    printf("Hello, World!\n");
    printf("Hello, World!\n");
    return 0;
    return 0;
}
}
^Z
Number of macros defined = 2
Number of header files included = 2

C:\Users\kullu>
```

Adding lines:



```
1: #include <stdio.h>

2: int main() {

3:     int num1 = 10, num2 = 20, sum;

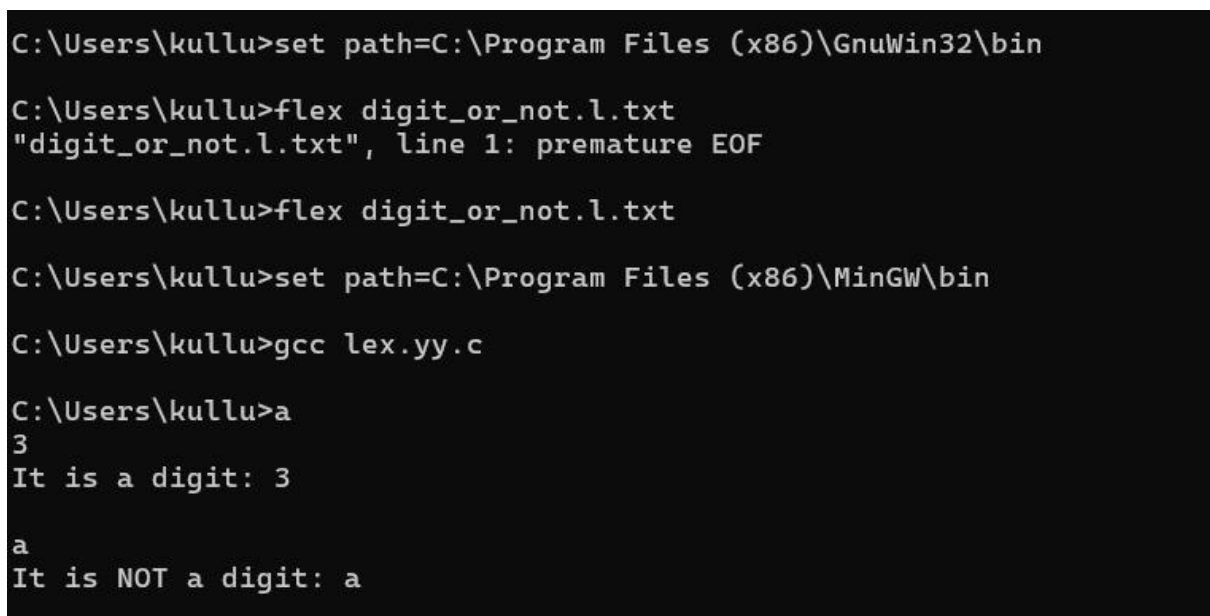
4:     sum = num1 + num2;

5:     printf("Sum = %d\n", sum);

6:     return 0;

7: }
```

Digit or not:



```
C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin

C:\Users\kullu>flex digit_or_not.l.txt
"digit_or_not.l.txt", line 1: premature EOF

C:\Users\kullu>flex digit_or_not.l.txt

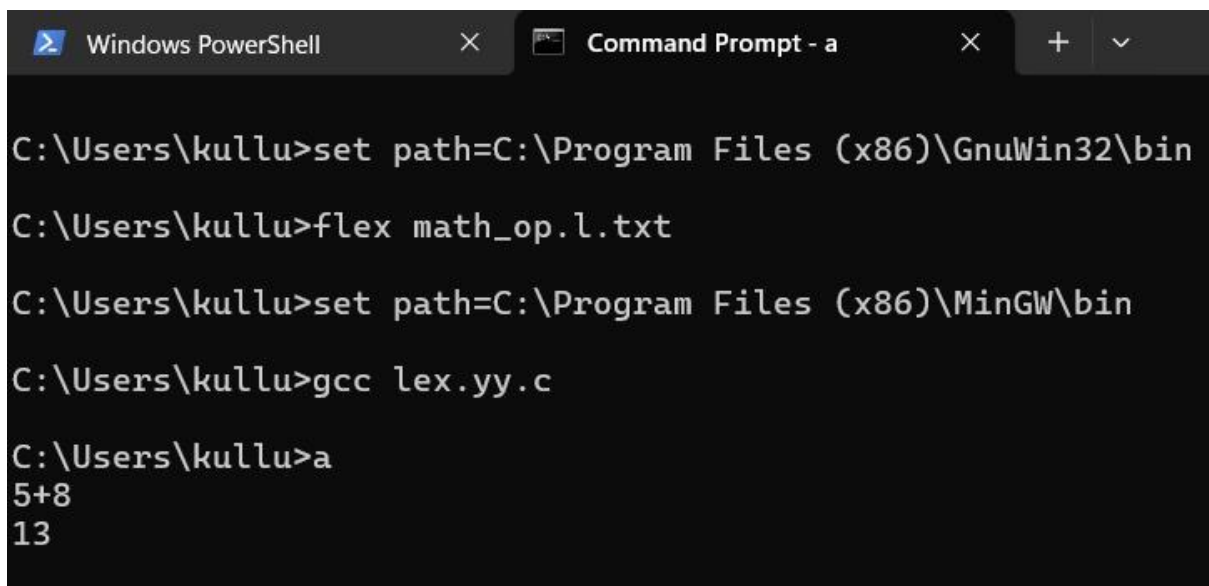
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin

C:\Users\kullu>gcc lex.yy.c

C:\Users\kullu>a
3
It is a digit: 3

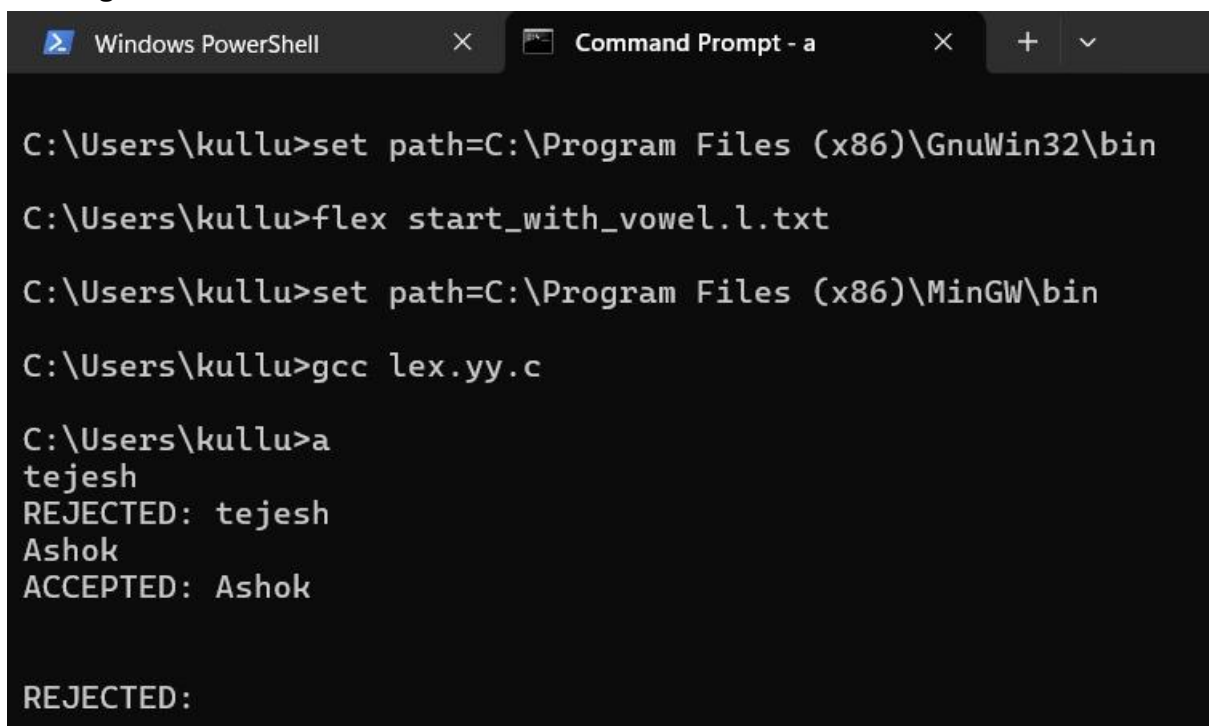
a
It is NOT a digit: a
```

Math operations:



```
Windows PowerShell
C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex math_op.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
5+8
13
```

Starting with vowels:



```
Windows PowerShell
C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex start_with_vowel.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
tejesh
REJECTED: tejesh
Ashok
ACCEPTED: Ashok

REJECTED:
```

Length of the longest word in text:

```
Windows PowerShell  Command Prompt
C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex longest_word.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
Enter text:
my name is Ashok
^Z
Length of the longest word = 5
```

Frequency of the word:

```
Windows PowerShell  Command Prompt
C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex frequency.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
Enter the word to search: hello
Enter the sentence:
hello ashok how are you
^Z
Frequency of 'hello' = 1
C:\Users\kullu>
```


Replace word in text :

```
Windows PowerShell  X  Command Prompt - a  X  +  v

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex replace.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
Word to replace: hi
Replace with: hello

Enter text (Ctrl+D to end):
hi ashok how are you

hello ashok how are you
```

Relational operator:

```
Windows PowerShell  X  Command Prompt - a  X  +  v

C:\Users\kullu>set path=C:\Program Files (x86)\GnuWin32\bin
C:\Users\kullu>flex relational.l.txt
flex: can't open relational.l.txt

C:\Users\kullu>flex relational_op.l.txt
C:\Users\kullu>set path=C:\Program Files (x86)\MinGW\bin
C:\Users\kullu>gcc lex.yy.c
C:\Users\kullu>a
Enter input:
5 > 4
Other symbol: 5
Relational operator: >
Other symbol: 4
```