Capital word:


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

Microsoft Windows [Version 10.0.26100.4946]
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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]
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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
```
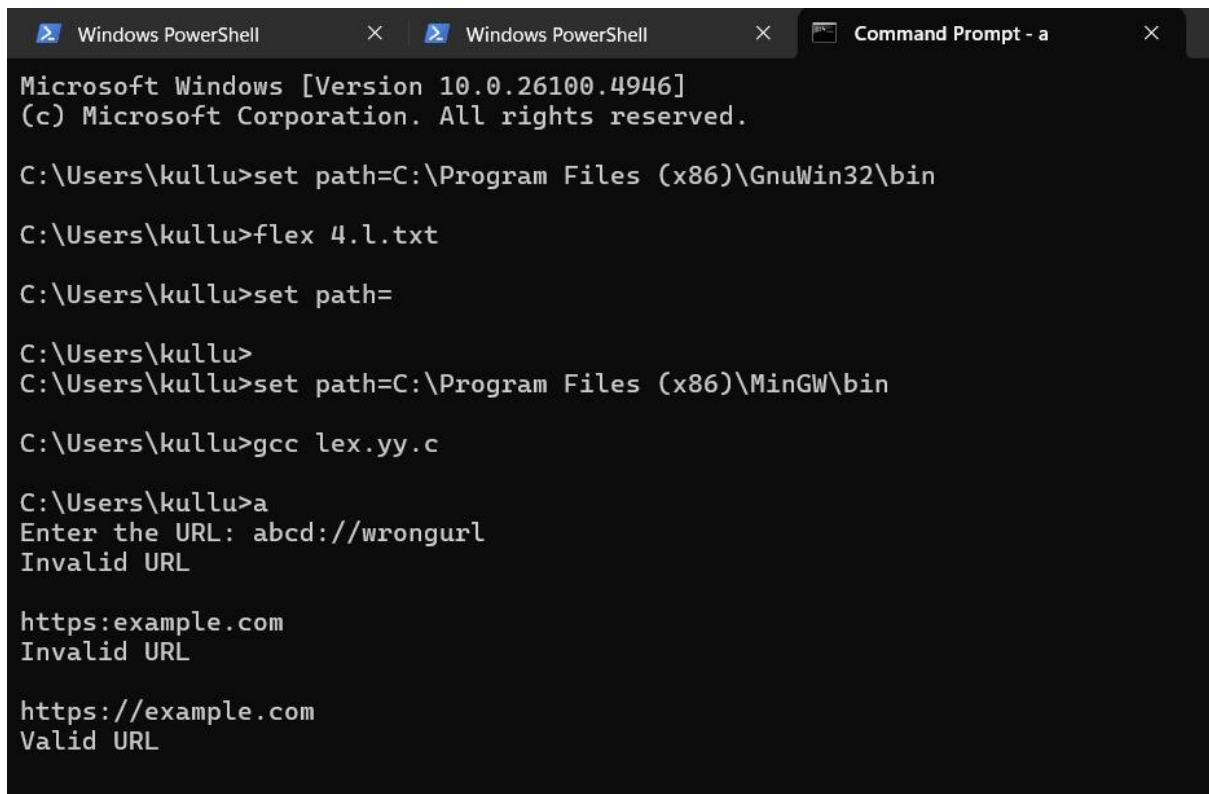
Url:

```
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
```
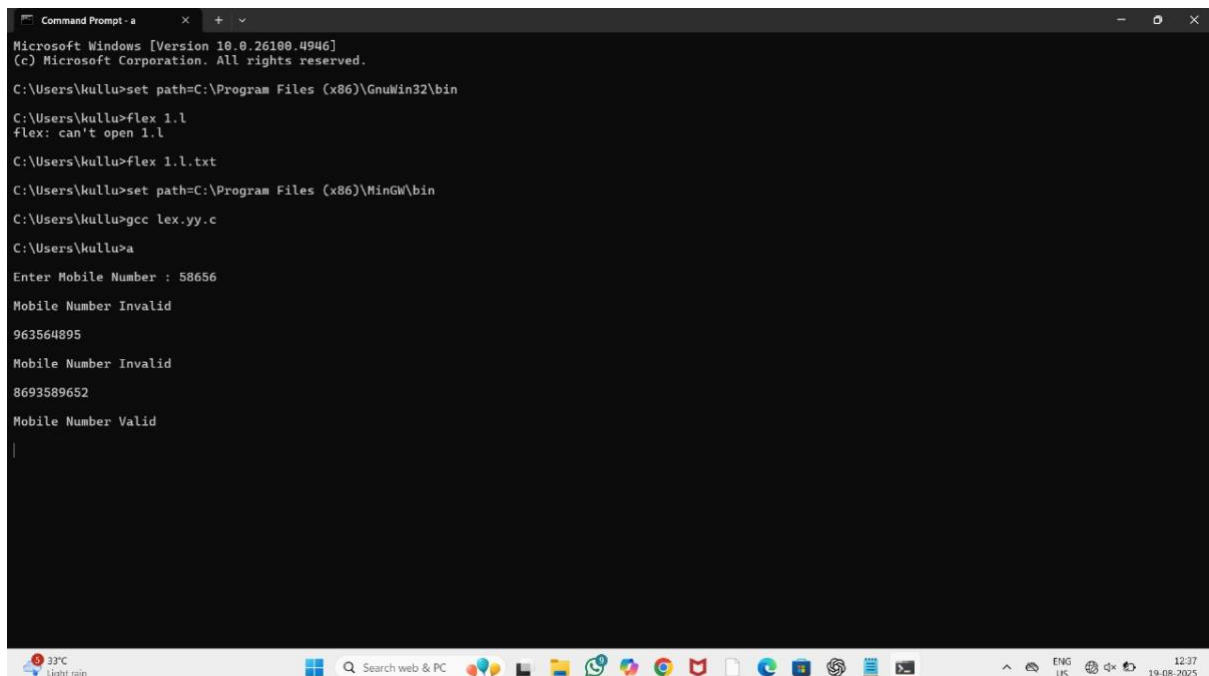
Mobile number:

```
Microsoft Windows [Version 10.0.26100.4946]
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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
```

Identifers and keywords:

Count of vowels and consnats:

Header files:

```
Command Prompt                    X    +    v

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>
```
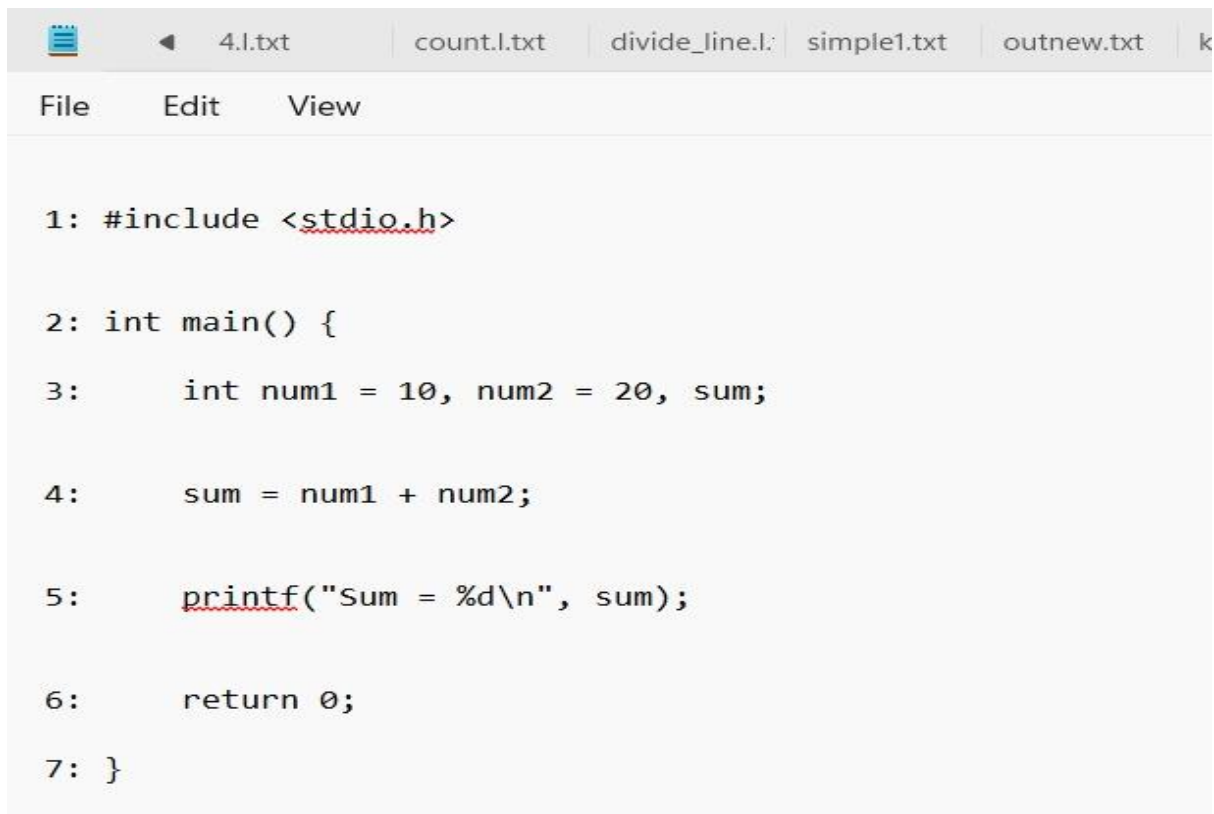
Adding lines:

File   Edit   View

```
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: }
```
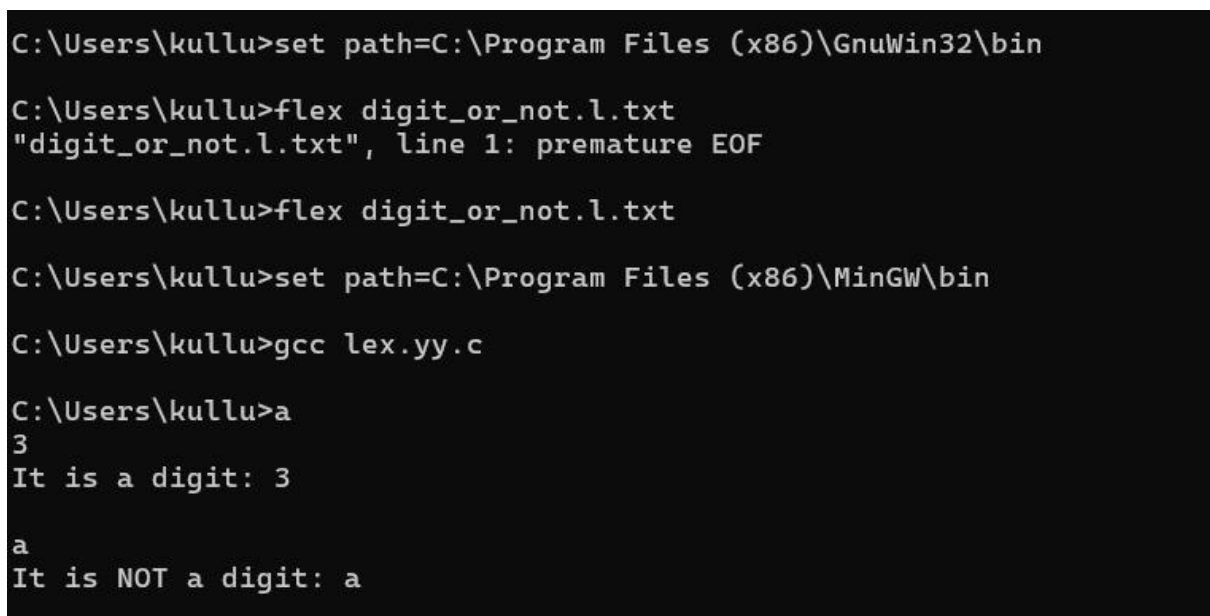
Digit or not:

```
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
```
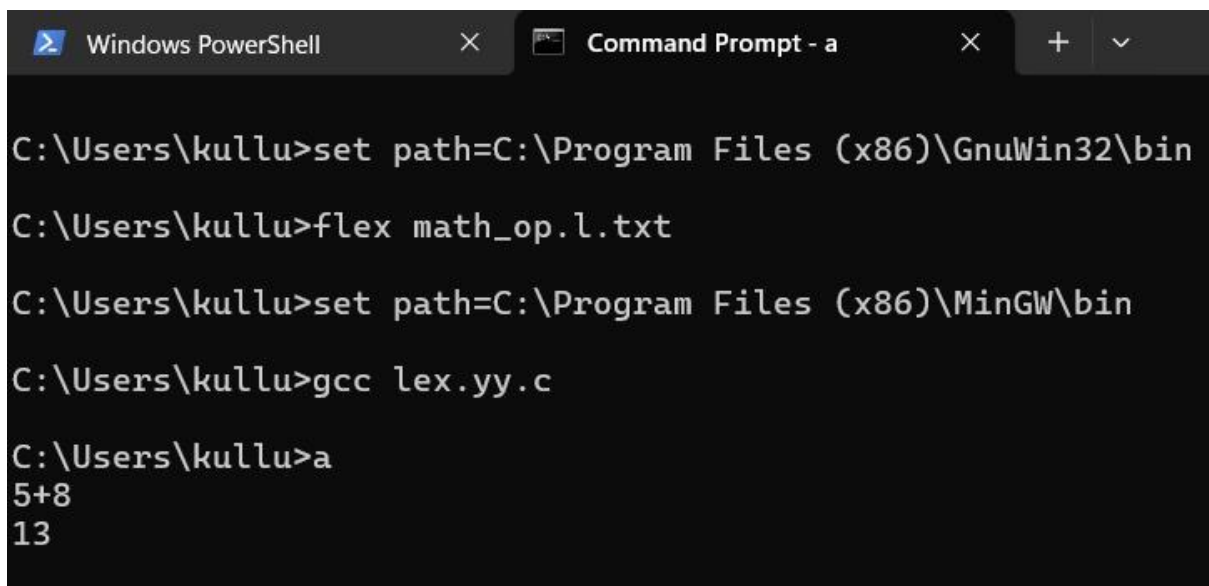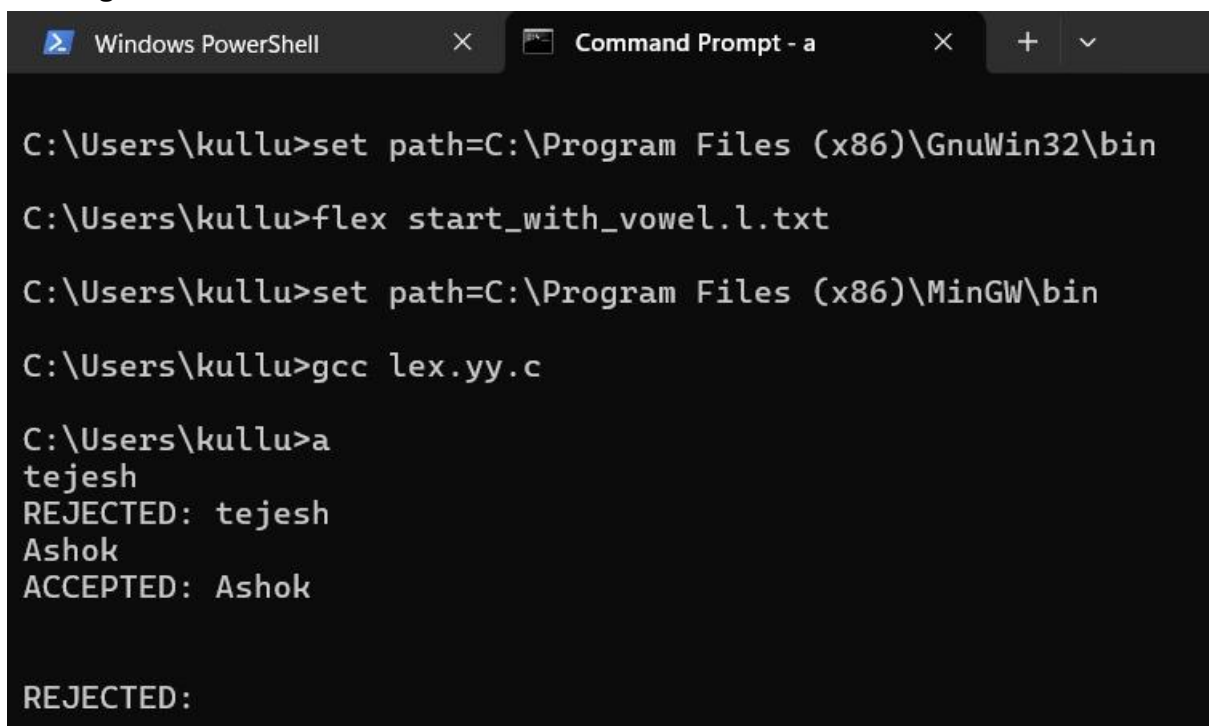
Math operations:

Starting with vowels:

Length of the longest word in text:

```
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:

```
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 :

Relational operator: