

Day2

```
1.)%{
```

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

```
#include <string.h>
```

```
int maxLength = 0;
```

```
int currentLength = 0;
```

```
%}
```

```
%%
```

```
[a-zA-Z]+ {
```

```
    currentLength = yyleng;
```

```
    if (currentLength > maxLength) {
```

```
        maxLength = currentLength;
```

```
    }
```

```
}
```

```
[^a-zA-Z]+ ; // Ignore non-alphabetic characters
```

```
%%
```

```

int main() {
    yylex();

    printf("The length of the longest word is: %d\n", maxLength);

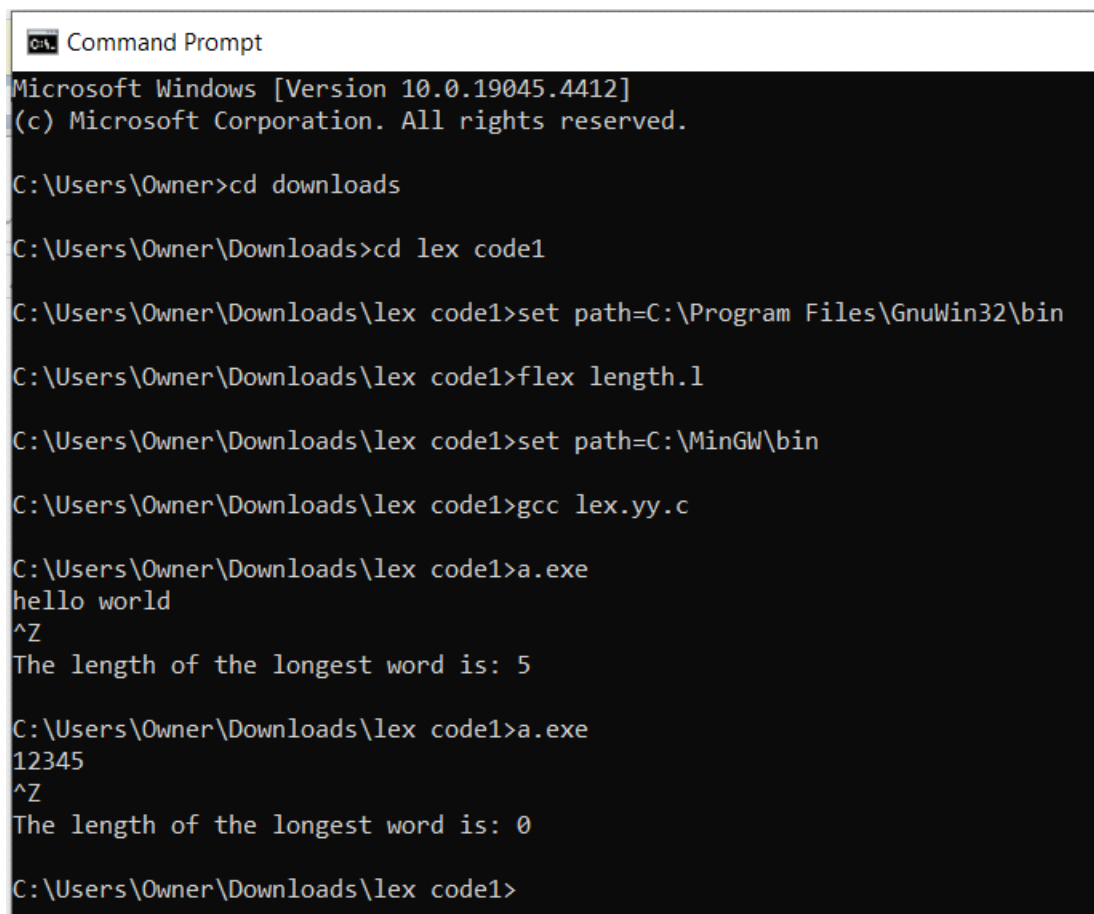
    return 0;
}

```

```

int yywrap() {
    return 1;
}

```



```

Command Prompt
Microsoft Windows [Version 10.0.19045.4412]
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C:\Users\Owner>cd downloads
C:\Users\Owner\Downloads>cd lex code1
C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin
C:\Users\Owner\Downloads\lex code1>flex length.l
C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin
C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c
C:\Users\Owner\Downloads\lex code1>a.exe
hello world
^Z
The length of the longest word is: 5

C:\Users\Owner\Downloads\lex code1>a.exe
12345
^Z
The length of the longest word is: 0

C:\Users\Owner\Downloads\lex code1>

```

2.)%{

```

%}

%%

((http)|(ftp))s?:\\/[a-zA-Z0-9]{2}(\\.[a-z]{2})+(\\/[a-zA-Z0-9+=?]*)*
{printf("\nURL Invalid\n");}

.+ {printf("\nURL valid\n");}

%%

int yywrap(){}

void main()

{

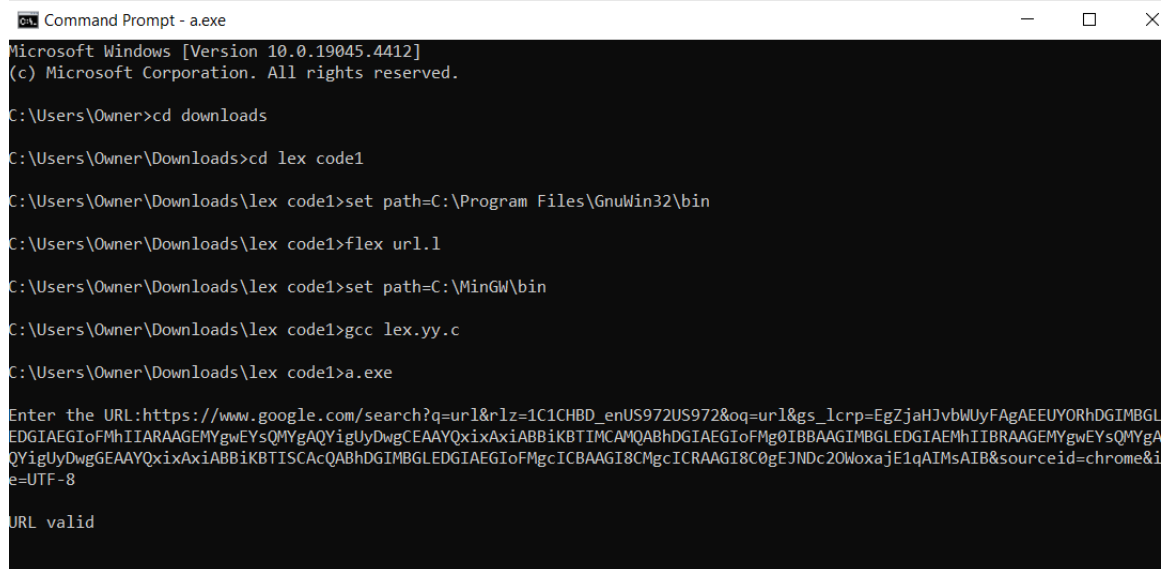
    printf("\nEnter the URL:");

    yylex();

    printf("\n");

}

```



```

Command Prompt - a.exe
Microsoft Windows [Version 10.0.19045.4412]
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C:\Users\Owner>cd downloads

C:\Users\Owner\Downloads>cd lex code1

C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin

C:\Users\Owner\Downloads\lex code1>flex url.1

C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c

C:\Users\Owner\Downloads\lex code1>a.exe

Enter the URL:https://www.google.com/search?q=url&rlz=1C1CHBD_enUS972US972&oq=url&gs_lcrp=EgZjaHJvbWUyFagAEEUYORhDGIMBGL
EDGIAEGIoFMhIIARAAGEMYgwEYsQMYgAQYigUyDwgCEAAyQxixAxiABBiKBTIMCAMQABhDGIAEGIoFMg0IBBAAGIMBGLLEDGIAEMhIIIBRAAGEMYgwEYsQMYgA
QYigUyDwgGEAAyQxixAxiABBiKBTISCACQABhDGIMBGLLEDGIAEGIoFMgcICBAAGI8CMgcICRAAGI8C0gEJNDc2OWoxajE1qAIMsAIB&sourceid=chrome&i
e=UTF-8

URL valid

```

3.)%{

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

```
%}
```

```
%%
```

```
[0-9][0-9]\|[0-1][0-9]\|[1-2][0-9]{3} {printf("valid");}
```

```
.+ {printf("invalid");}
```

```
%%
```

```
int yywrap(){}
```

```
int main()
```

```
{
```

```
    yylex();
```

```
}
```

```
Command Prompt - a.exe
Microsoft Windows [Version 10.0.19045.4412]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Owner>cd downloads

C:\Users\Owner\Downloads>cd lex code1

C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin

C:\Users\Owner\Downloads\lex code1>flex dob.l

C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c

C:\Users\Owner\Downloads\lex code1>a.exe
19/06/2005
valid
```

```

4.)%{
#include<stdio.h>

%}

%%

"=|'+|'-'|'/'|'*" {printf("valid");}
.+ {printf("invalid");}

%%

int yywrap(){}

int main()
{
printf("Enter the input:");
yylex();
return 0;
}

```

Command Prompt - a.exe

```
Microsoft Windows [Version 10.0.19045.4412]
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C:\Users\Owner>cd downloads

C:\Users\Owner\Downloads>cd lex code1

C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin

C:\Users\Owner\Downloads\lex code1>flex mo.l

C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c
'gcc' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c

C:\Users\Owner\Downloads\lex code1>a.exe
Enter the input:+
valid
1
invalid
r
invalid
*
valid
```

5.)%{

%}

%%

[a-z.0-9_]+@[a-z]+".com"|.in" {printf("it is valid");}

.+ {printf("it is not valid");}

%%

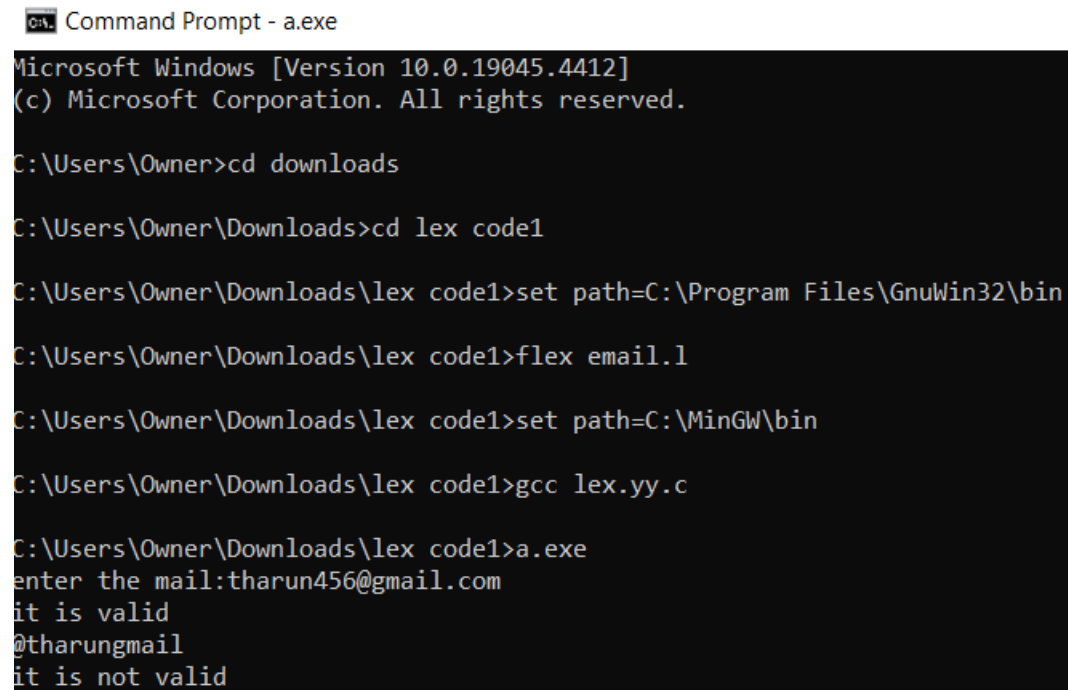
int yywrap(void)

{}

int main()

{

```
printf("enter the mail:");
yylex();
}
```



Command Prompt - a.exe

```
Microsoft Windows [Version 10.0.19045.4412]
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C:\Users\Owner>cd downloads

C:\Users\Owner\Downloads>cd lex code1

C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin

C:\Users\Owner\Downloads\lex code1>flex email.1

C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c

C:\Users\Owner\Downloads\lex code1>a.exe
enter the mail:tharun456@gmail.com
it is valid
@tharungmail
it is not valid
```

```
6.)%{
%}
%%

[a-z] {printf("%c",yytext[0]-32);}

. {}


%%

int yywrap(void){}

int main()
{
printf("\nenter the string:");
```

yylex();

}

 Command Prompt - a.exe

```
Microsoft Windows [Version 10.0.19045.4412]
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C:\Users\Owner>cd downloads

C:\Users\Owner\Downloads>cd lex code1

C:\Users\Owner\Downloads\lex code1>set path=C:\Program Files\GnuWin32\bin

C:\Users\Owner\Downloads\lex code1>flex substring.l

C:\Users\Owner\Downloads\lex code1>set path=C:\MinGW\bin

C:\Users\Owner\Downloads\lex code1>gcc lex.yy.c

C:\Users\Owner\Downloads\lex code1>a.exe

enter the string:abc
ABC
```