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

```
%{

#include <stdio.h>

%}


%%


%%

// Use a custom function to validate the URL

int validateURL(char *url) {

    // Basic URL pattern (starts with http:// or https://)

    if(sscanf(url, "http://%*s") == 1 || sscanf(url, "https://%*s") == 1) {

        printf("Valid URL: %s\n", url);

        return 1;

    } else {

        printf("Invalid URL: %s\n", url);

        return 0;

    }

}


int main() {

    char input[4096]; // Adjust the size based on your needs
```

```c
    printf("Enter the URL to validate:\n");

    if (fgets(input, sizeof(input), stdin) == NULL) {

        fprintf(stderr, "Error reading input.\n");

        return 1;

    }

    // Remove newline character if present

    for (int i = 0; input[i] != '\0'; i++) {

        if (input[i] == '\n') {

            input[i] = '\0';

            break;

        }

    }

    // Validate the URL

    if (validateURL(input)) {

        printf("URL is valid!\n");

    } else {

        printf("URL is invalid!\n");

    }

    return 0;
```
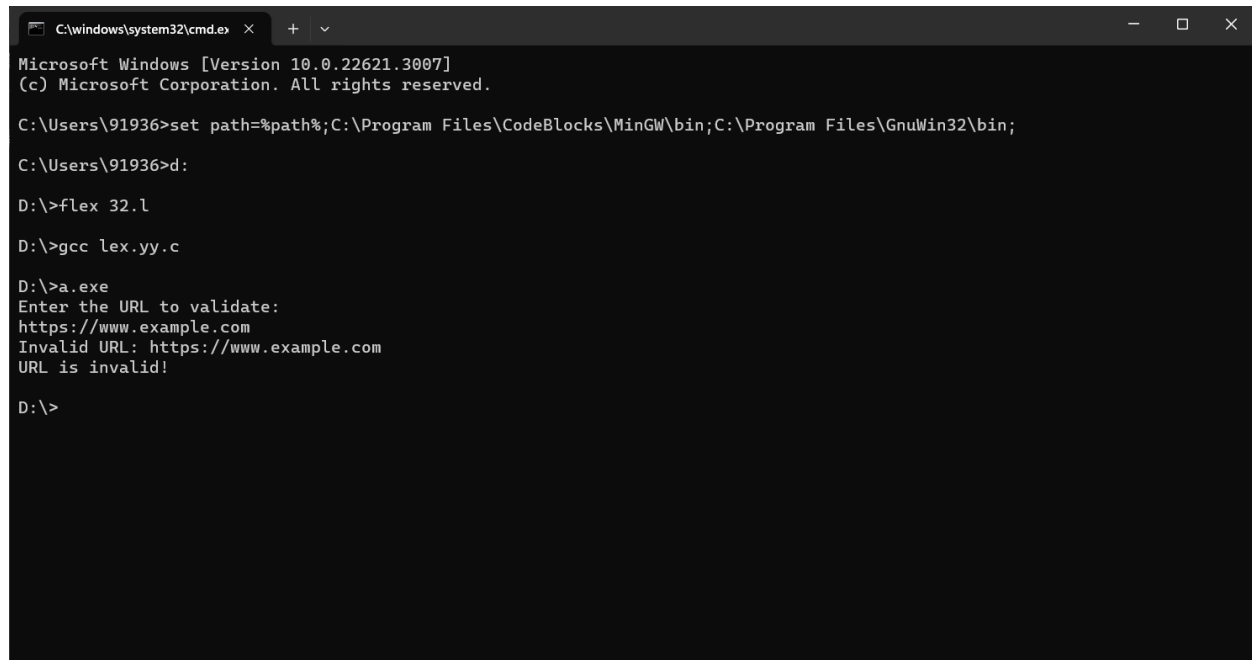
}

int yywrap() { return 1; }

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

C:\Users\91936>set path=%path%;C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\GnuWin32\bin;

C:\Users\91936>d:

D:\>flex 32.l

D:\>gcc lex.yy.c

D:\>a.exe
Enter the URL to validate:
https://www.example.com
Invalid URL: https://www.example.com
URL is invalid!

D:\>
```