

Exp. No. 2

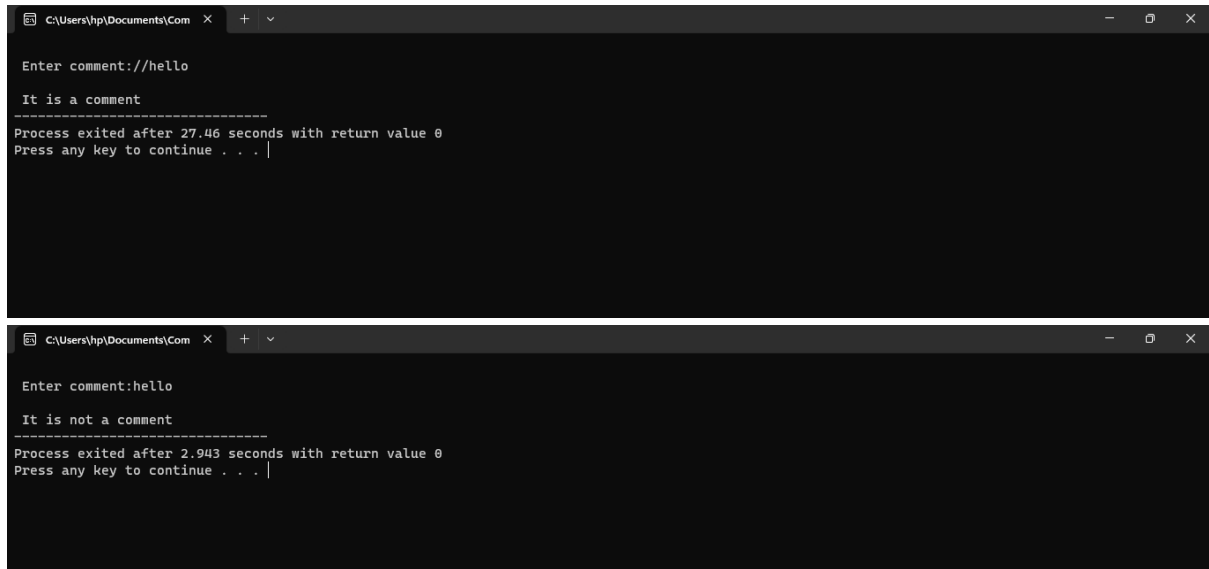
Develop a lexical Analyzer to identify whether a given line is a comment or not using C

Program:

```
#include<stdio.h>
#include<conio.h>
int main()
{
    char com[30];
    int i=2,a=0;
    printf("\n Enter comment:");
    gets(com);
    if(com[0]=='/')
    {
        if(com[1]=='/')
            printf("\n It is a comment");
        else if(com[1]=='*')
        {
            for(i=2;i<=30;i++)
            {
                if(com[i]=='*'&&com[i+1]=='/')
                {
                    printf("\n It is a comment");
                    a=1;
                    break;
                }
                else
                    continue;
            }
            if(a==0)
                printf("\n It is not a comment");
        }
        else
            printf("\n It is not a comment");
    }
}
```

```
    else
        printf("\n It is not a comment");
}
```

OUTPUT:



The image displays two screenshots of a Windows command prompt window, showing the execution of a program that checks if a comment is valid. The window title is "C:\Users\hp\Documents\Com".

Top Screenshot: The user enters the comment "//hello". The program outputs "It is a comment" followed by a separator line. The process exits after 27.46 seconds with a return value of 0. The prompt asks the user to press any key to continue.

Bottom Screenshot: The user enters the comment "hello". The program outputs "It is not a comment" followed by a separator line. The process exits after 2.943 seconds with a return value of 0. The prompt asks the user to press any key to continue.