2.Extend the lexical Analyzer to Check comments, dened as follows in C:

a) A comment begins with // and includes all characters until the end of that line.

b) A comment begins with /\* and includes all characters through the next occurrence of the character sequence \*/Develop a lexical Analyzer to identify whether a given line is a comment or not.

#include<stdio.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:

