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

**CODE:**

#include <stdio.h>

#include <string.h>

void checkComment(const char \*input) {

if (input[0] == '/' && input[1] == '/') {

printf("Single-line comment detected.\n");

} else if (input[0] == '/' && input[1] == '\*') {

printf("Multi-line comment detected.\n");

} else {

printf("Not a comment.\n");

}

}

int main() {

char input[200];

printf("Enter a line: ");

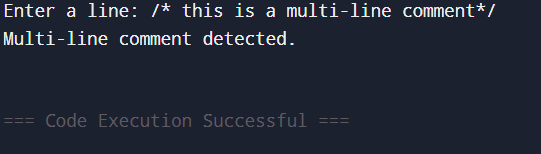
fgets(input, sizeof(input), stdin);

checkComment(input);

return 0;

}

**OUTPUT:**

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