PROGRAM:-

#include <stdio.h>

#include <string.h>

int isComment(const char \*line) {

if (strstr(line, "//") == line) {

return 1; // Single-line comment

}

if (strstr(line, "/\*") != NULL) {

if (strstr(line, "\*/") != NULL) {

return 1; // Multi-line comment

}

}

return 0; // Not a comment

}

int main() {

const char \*lines[] = {

"// This is a single-line comment",

"int main() {",

"/\* This is a multi-line comment \*/",

"printf(\"Hello, World!\");",

"/\* This is a multi-line comment",

"still in comment \*/"

};

for (int i = 0; i < sizeof(lines) / sizeof(lines[0]); i++) {

if (isComment(lines[i])) {

printf("Line %d is a comment.\n", i + 1);

} else {

printf("Line %d is not a comment.\n", i + 1);

}

}

return 0;

}

OUTPUT:-

