Lab Performance (01)

1. Write a C/C++ program that can read program from a file and detect all the tokens (e.g. valid or invalid identifier, keyword, operator) from the file.

For example:

```
Select "K:\Compiler Design\Lab\Lab 3\Lab 3\two_tokens.exe" —

'void' is keyword

'main' is keyword

'a' is identifier

'b' is identifier

'c' is identifier

'c' is identifier

'a' is operator

'a' is identifier

'+' is operator

'b' is identifier

Process returned 0 (0x0) execution time: 0.102 s

Press any key to continue.
```

2. Write a C/C++ program to check if expression is correctly parenthesized or not.

For example:

```
Enter expression: a+(b*c)/e-(f+g*(h^i))/j

Expression is valid.

Process returned 0 (0x0) execution time : 57.189 s

Press any key to continue.
```

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3. Write a C/C++ program that can remove comment lines from a program (a task of preprocessor).

For example:

```
Before removing comment:
#include <stdio.h>
int main()
   printf("Hello World"); //This is a single line comment
   return 0;
   /* This is a
   multi line
   comment... */
v1.0;C:\Win
After removing comment:
#include <stdio.h>
int main()
   printf("Hello World"); return 0;
v1.0;C:\Win
                          execution time : 0.101 s
Process returned 0 (0x0)
Press any key to continue.
```