Spotting up Labels & comments

PASS1 ASSEMBLER-PART2

Course2-Week-4

```cpp
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
int main() {
    ifstream infile("abc.txt");
    if (!infile.is_open()) {
        cout << "Failed to open file." << endl;
        return 1;
    }
    string line;
    while (getline(infile, line)) {
        int comment_pos = line.find(';'); // find the position of the semicolon
        if (comment_pos != string::npos) { // if a semicolon is found
            string comment = line.substr(comment_pos + 1); // get the comment after the semicolon
            cout << "Found comment: " << comment << endl;
        }
    }
    infile.close();
    system("pause");
    return 0;
}
```

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```
ADD AX,CX
Lk:
BB:MOV AX;1'com
CC:
JC Count:
```

Code execution results in:

```
Found comment: 1'com
Press any key to continue . . .
```

Lable.cpp

(Global Scope)   main()

```cpp
#include <iostream>
#include <fstream>
#include <string>
using namespace std;
int main() {
    ifstream infile("abc.txt");
    if (!infile.is_open()) {
        cout << "Failed to open file." << endl;
        return 1;
    }
    string line;
    while (getline(infile, line)) {
        int label_pos = line.find(':'); // find the position of the colon
        if (label_pos != string::npos) { // if a colon is found
            string label = line.substr(0, label_pos); // get the text before the colon
            cout << "Found label: " << label << endl;
        }
    }
    infile.close();
    system("pause");
    return 0;
}
```

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File   Edit   Format   View   Help

```
ADD AX,CX
Lk:
BB:MOV AX;1'com
CC:
JC Count:
```

Code execution results in:

```
Found label: Lk
Found label: BB
Found label: CC
Found label: JC Count
Press any key to continue . .
```

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THE END