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Compiler Design Lab 1: Parse String and file to find comment and the keywords in the program.

File parser:

```
C parsec > (@) keywords
    # #include < stdio.h>
    # #include < stdio.h>
    # #include < stdio.h>
    # #include < string.h>
    # #include <istring.h>
    # #include <istrin
```

```
while (fgets(line, MAX_LINE, file)) {
    char *ptr = line;
    if (strstr(line, "/")) {
        printf("Comment: %s", line);
    } else if (strstr(line, "/*")) {
        printf("Comment: %s", line);
        while (fgets(line, MAX_LINE, file) && !strstr(line, "*/")) {
            printf("Comment: %s", line);
        }
        printf("Comment: %s", line);
    }
    printf("Comment: %s", line);
}

char *token = strtok(line, " \t\n(){};=,");
    while (token) {
        if (is_keyword(token)) {
            printf("Keyword: %s\n", token);
        }
        token = strtok(NULL, " \t\n(){};=,");
    }
}

fclose(file);
}

fclose(file);
}

framain() {
    parse_file("aaditiyatyagi.txt");
    return 0;
}
```

TXT File:

Output:

```
[Running] cd "c:\Users\veert\OneDrive\Desktop\new\" && gcc parse.c -o parse && "c:\Users\veert\OneDrive\Desktop\new\"parse
Parsed Data:

Comment: // This is a c program

Keyword: int

Keyword: for

Keyword: if

Comment: /* hello my name is aaditiya tyagi ,

Comment: I'm a student of cs departement KIET*/

[Done] exited with code=0 in 0.583 seconds

String
```

Parser:

```
Intrograms > O main()
I  # #include (stdio, h)
# #include (stdio, h)
# #include (stdio, h)
# #include (styling, h)
# #inc
```

Output:

[Running] cd "c:\Users\veert\OneDrive\Desktop\new\" && gcc stringparse.c -o stringparse && "c:\Users\veert\OneDrive\Desktop\new\"stringparse
Parsed Data:
Comment: // This is a comment
Keyword: int
Keyword: return

[Done] exited with code=0 in 0.469 seconds