

## Exp 1b : Remove Comments

1. Start
2. c , d , e are read using fgetc( input\_file )
3. while ( c != EOF ) do
  1. check ( c )
4. void check ( c )
  1. if ( c = / ) then
    1. if ( d = \* ) then
      1. multi\_comment()
    2. else if ( d = / ) then
      1. single\_comment()
    3. else print c , d
  2. else print c
5. void single\_comment()
  1. while ( d != EOF ) do
    1. if ( d = \n ) then
      1. print d
    2. return
6. void multi\_comment()
  1. while ( d != EOF ) do
    1. if ( d = \* ) then
      1. if ( e = / ) then
        1. return
7. Stop

### Remove Comments code ( C )

```
#include<stdio.h>
#include<stdlib.h>
```

```
void check(char);
void single_comment();
void multi_comment();
```

```
FILE *fp, *fs;
```

```
void check(char c){
    char d;
    if(c == '/'){
        if((d = fgetc(fp)) == '*'){
            multi_comment();
        }else if(d == '/'){
            single_comment();
        }else{
            fputc(c, fs);
            fputc(d, fs);
        }
    }else{
        fputc(c, fs);
    }
}
```

```

void single_comment(){
    char d;
    while((d = fgetc(fp)) != EOF){
        if(d == '\n') {
            fputc(d, fs);
            return;
        }
    }
}

void multi_comment(){
    char d, e;
    while((d = fgetc(fp)) != EOF){
        if(d == '*'){
            if((e = fgetc(fp)) == '/'){
                return;
            }
        }
    }
}

int main(){
    fp = fopen("input.c", "r");
    fs = fopen("output.c", "w");

    if(fp == NULL || fs == NULL){
        perror("Error opening files");
        return 1;
    }

    char c;
    while((c = fgetc(fp)) != EOF){
        check(c);
    }

    printf("Output file without comments ,generated successfully\n");

    fclose(fp);
    fclose(fs);

    return 0;
}

```

### input.c

```
//C-program to calculate sum
#include<stdio.h>
```

```
int main(){
    //This is a single line comment
    int num1=5,num2=10;
    int sum=num1+num2;
    printf("sum = %d\n",sum);
    /*This is a multi-line comment
    or a block comment*/
    return 0;
}
```

### output.c

```
#include<stdio.h>
```

```
int main(){

    int num1=5,num2=10;
    int sum=num1+num2;
    printf("sum = %d\n",sum);

    return 0;
}
```

### output

```
● deadpool@daredevil:~/Desktop/s7-CD/01 Lexical Analyzer ( C )/Remove Comments$ gcc remove_comts.c
● deadpool@daredevil:~/Desktop/s7-CD/01 Lexical Analyzer ( C )/Remove Comments$ ./a.out
  output file without comments ,generated successfully
○ deadpool@daredevil:~/Desktop/s7-CD/01 Lexical Analyzer ( C )/Remove Comments$ █
```