OBJECTIVE-1

AIM:-Designing a lexical Analyzer in C with the following features:

a. Removing white spaces from the input code.

b. Ignoring the text enclosed within /* */

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
   FILE *input;
   FILE *output;
   char p;
   char c,d;
          input=fopen("input.txt","r");
   output=fopen("output.txt","w");
   while((p=fgetc(input))!=EOF){
                  if (p!=' ' &&p!='\t' &&p!='\n'&& p!='/'){
                    fputc(p,output);
                  }
   if(p=='/'){
     p=fgetc(input);
     if(p=='/'){
       while((p=fgetc(input))!='\n');
     }
     else if(p=='*'){
       while((c=fgetc(input))!=EOF){
         if(c=='*'){
           d=fgetc(input);
           if(d=='/')
             break;
         }
       }
     }
     else{
       fputc(p,output);
     }
   }
}
fclose(input);
fclose(output);
return 0;}
```

OUTPUT-

input.txt

c: > Users > hp > OneDrive > Documents > input.txt

```
1  /*This is a C program for Designing a lexical Analyzer*/
2  #include<stdlib.h>
3  #include<stdio.h>
4  /*This program is made by Akshita Kanther and Enrollement number is:180161*/
5  int main()
6  {
7  FILE *input;
8  }
9
```

output.txt

c: > Users > hp > OneDrive > Documents > output.txt

```
1  #include<stdlib.h>#include<stdio.h>intmain(){FILE*input;
```