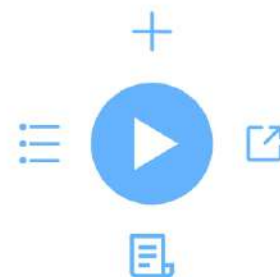


C Hello_World.c

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4
5 #define MAX_LENGTH 2024
6 #define MIN_LENGTH 1945
7
8 void lessThanRequired (int* lengthOfText){
9     printf("\nthe length of your text is less than specified, please update your text");
10    printf("\nLength Before : %d", *lengthOfText);
11    *lengthOfText = MIN_LENGTH;
12 }
13
14 void equalThanRequired (int* lengthOfText){
15     printf("\nThank you, Your text length is correct");
16 }
17
18 void moreThanRequired (int* lengthOfText){
19     printf("\nYour text is too long, please reduce the text");
20     printf("\nLength Before : %d", *lengthOfText);
21     *lengthOfText = MAX_LENGTH;
22 }
23
24 int checkLengthRequirement(char* text){
25     int length = strlen(text);
26     return (length < MIN_LENGTH) ? 0 : ((length == MIN_LENGTH) ? 1 : 2);
27 }
28
29 int main() {
30     int lengthOfText, selectOption;
31     FILE *fptr = NULL;
32     char text[MAX_LENGTH];
33
34     fptr = fopen("file.txt", "r");
35
36     if(fptr == NULL){
37         printf("Error");
38         exit(1);
39     }
40
41     fputs(text, MAX_LENGTH, fptr);
42     fclose(fptr);
43
44     selectOption = checkLengthRequirement(text);
45
46     void (*functions[3])(int*) = {lessThanRequired, equalThanRequired, moreThanRequired};
47     lengthOfText = strlen(text);
48     functions[selectOption](&lengthOfText);
49
50     printf("\nThe Length is updated to %d", lengthOfText);
51
52     return 0;
53 }
54

```



< Terminal



The length of your text is less than specified, please
update your text
Length Before : 312
The Length is updated to 1945[Process completed]