Compiler Lab Final Report

CSE-0302 Summer 2021

Sadia Anha Tonni

Department of Computer Science and Engineering
State University of Bangladesh (SUB)
Dhaka, Bangladesh
email address: sadiaanha766@gmail.com

Abstract—**Main theme of your assignment or academic projects.**
n
Index Terms—**The word mostly used in your report.**

I. INTRODUCTION

In this report I learn how to detect syntax error and also learn about CFG. And I also learn about Predictive Parsing. In which I can now parse a given grammer.

II. LITERATURE REVIEW

I use C and C++. In those programming language I use file for input and output.

III. PROPOSED METHODOLOGY

Firstly I learned C and C++ for solving this type of problem. and then I learn how to detect syntax error. Then I learn CFG. And At the end I learning how to predictive parse.

IV. CONCLUSION AND FUTURE WORK

In future I will learn more about CFG. And also learn about C and C++.

ACKNOWLEDGMENT

REFERENCES

[1] Santos, Eddie Antonio, et al. "Syntax and sensibility: Using language models to detect and correct syntax errors." 2018 IEEE 25th International Conference on Software Analysis, Evolution and Reengineering (SANER). IEEE, 2018. [2] Ford, Bryan. "Parsing expression grammars: a recognition-based syntactic foundation." Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages. 2004. [3] Predictive Parsing [4] Bruggemann-Klein, A., Wood, D. (2003). On predictive parsing and ¨ extended context-free grammars. In Computer Science in Perspective (pp. 69-87). Springer, Berlin, Heidelberg.
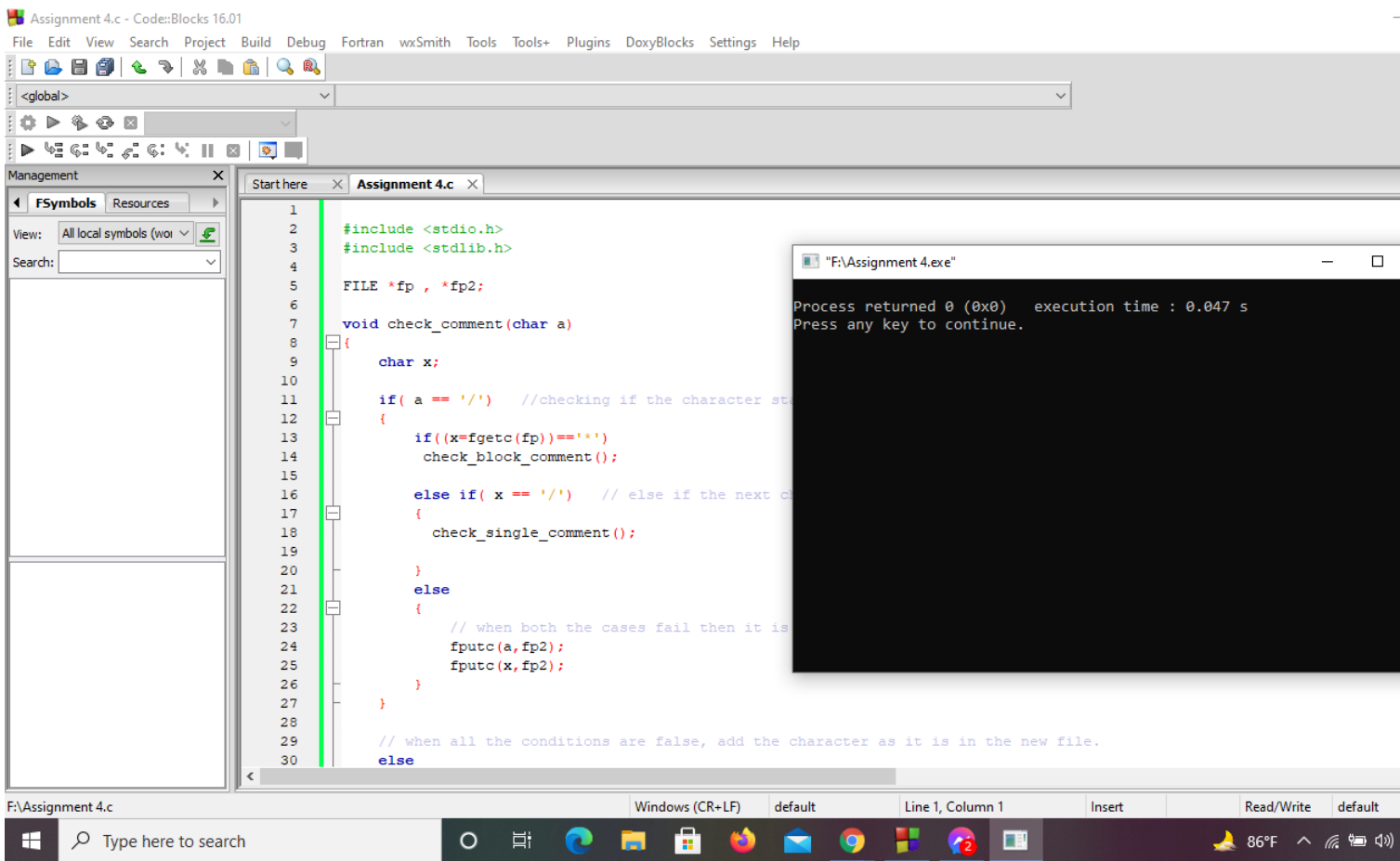
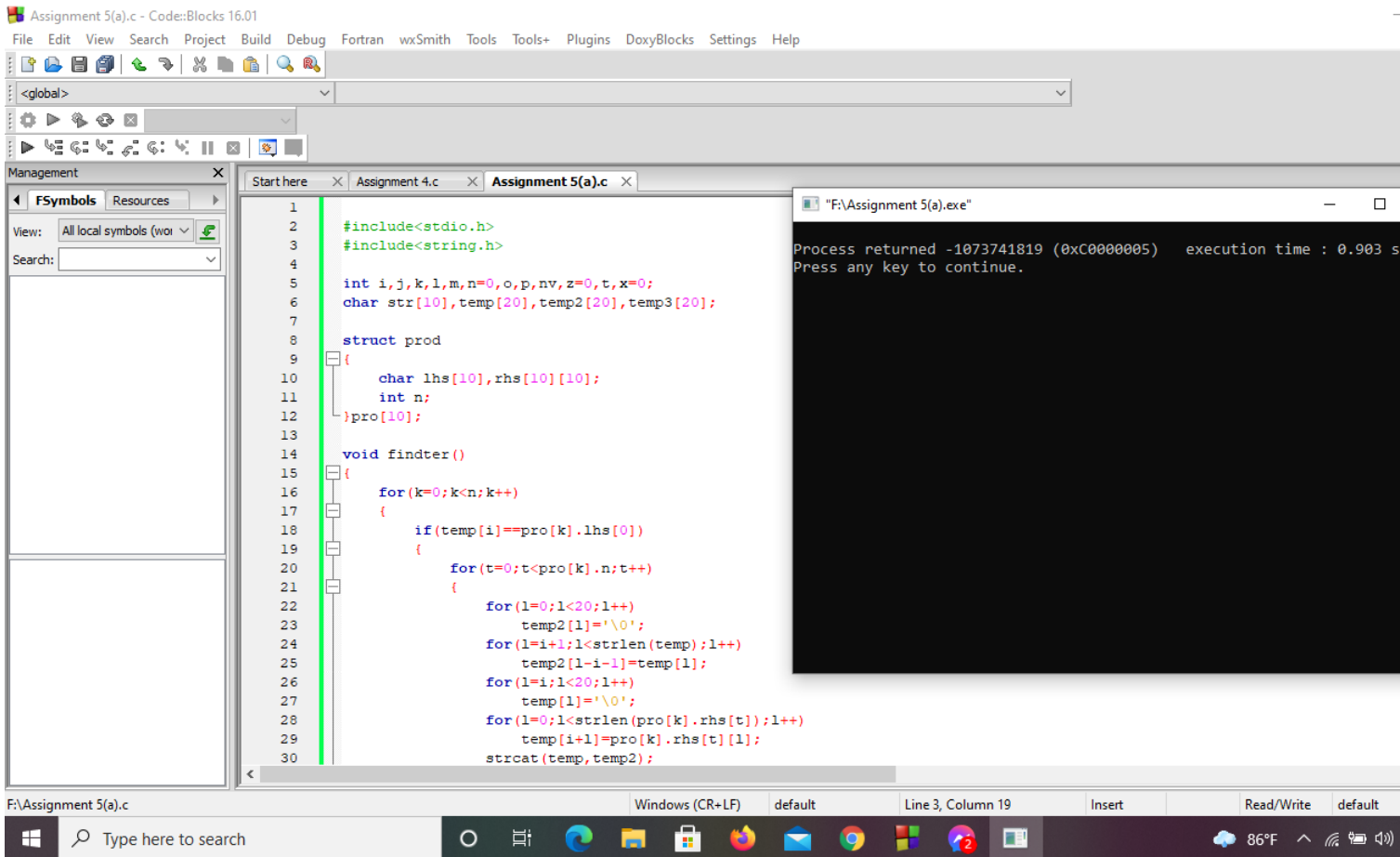Fig. 1. Category Section

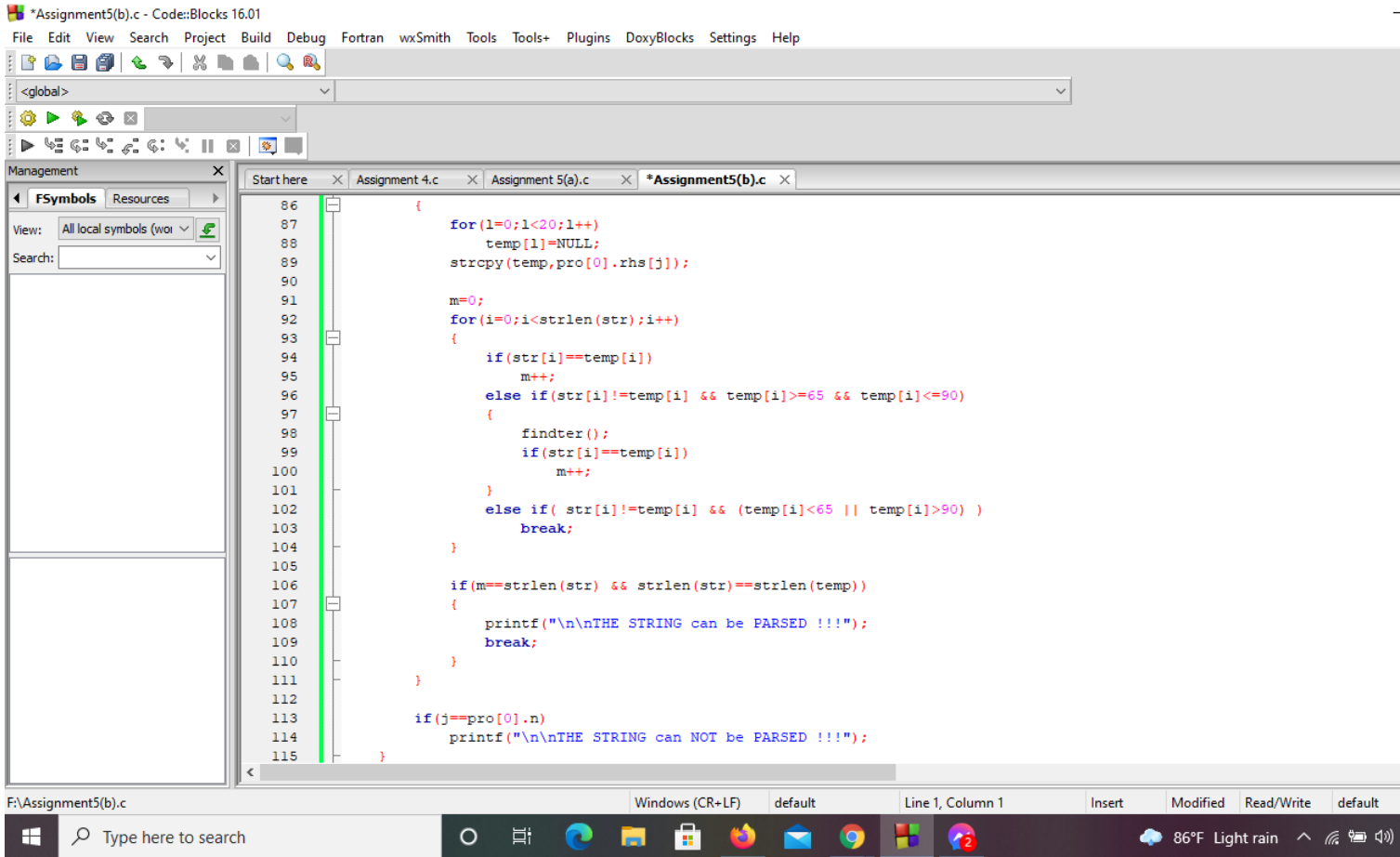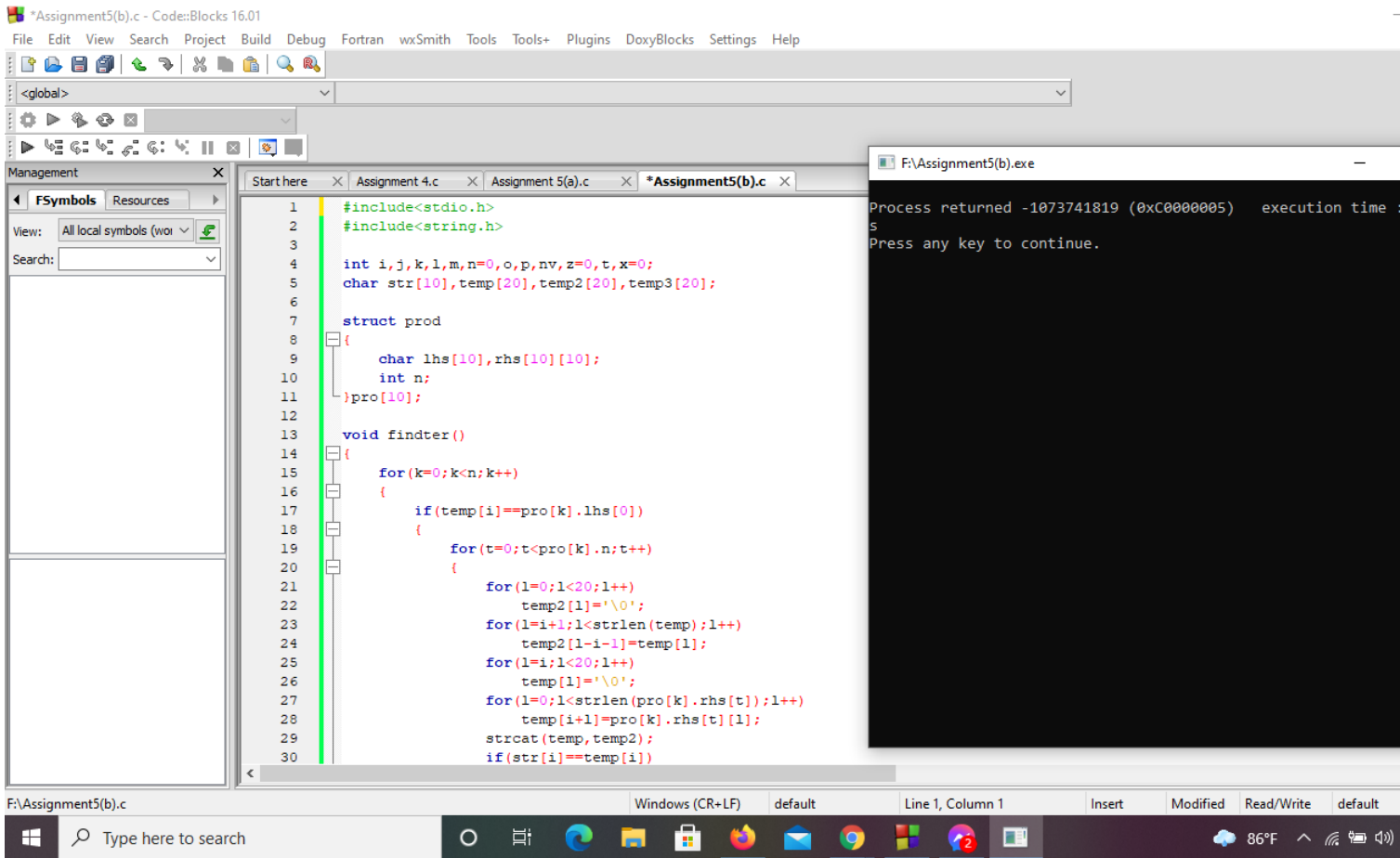Fig. 2. Category Section

Fig. 3. Category Section
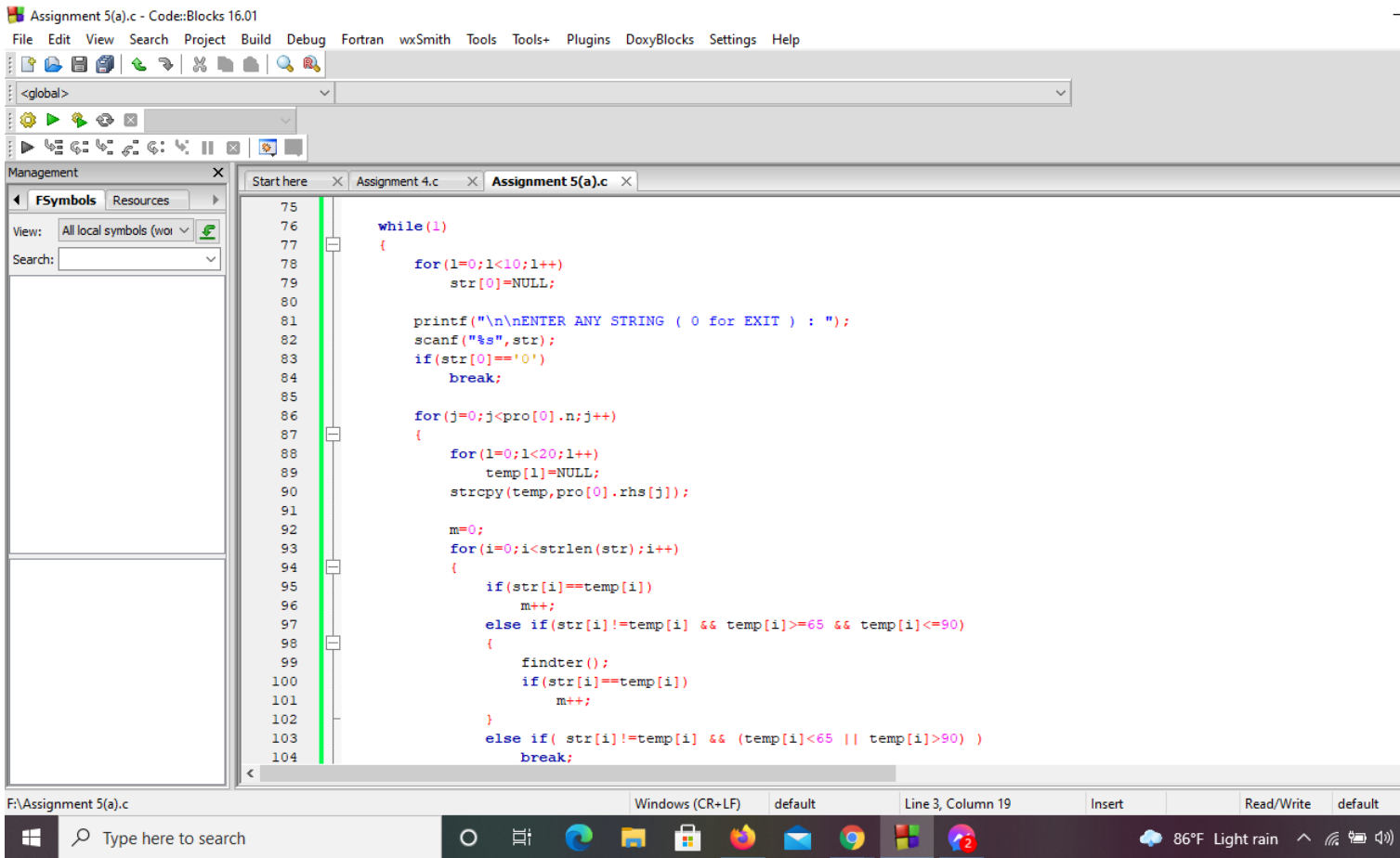
Fig. 4. Category Section

Fig. 5. Category Section

```c
75
76      while(1)
77      {
78          for(l=0;l<10;l++)
79              str[0]=NULL;
80
81          printf("\n\nENTER ANY STRING ( 0 for EXIT ) : ");
82          scanf("%s",str);
83          if(str[0]=='0')
84              break;
85
86          for(j=0;j<pro[0].n;j++)
87          {
88              for(l=0;l<20;l++)
89                  temp[l]=NULL;
90              strcpy(temp,pro[0].rhs[j]);
91
92              m=0;
93              for(i=0;i<strlen(str);i++)
94              {
95                  if(str[i]==temp[i])
96                      m++;
97                  else if(str[i]!=temp[i] && temp[i]>=65 && temp[i]<=90)
98                  {
99                      findter();
100                     if(str[i]==temp[i])
101                         m++;
102                 }
103                 else if( str[i]!=temp[i] && (temp[i]<65 || temp[i]>90) )
104                     break;
```

Fig. 6. Category Section