Assignment No-01

CSE-0302 Summer 2021

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***Abstract*—Main theme of your assignment or academic projects.**

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***Index Terms*—The word mostly used in your report.**

I. Introduction

Compiler is a software which converts a program written in high level language (Source Language) to low level language. We know a computer is a logical assembly of Software and Hardware. The hardware knows a language, that is hard for us to grasp, consequently we tend to write programs in high-level language, that is much less complicated for us to comprehend and maintain in thoughts. Now these programs go through a series of transformation so that they can readily be used by machines. This is where language procedure systems come handy.

This is the very first phase in the compiler designing. A Lexer takes the modified source code which is written in the form of sentences . In other words, it helps you to convert a sequence of characters into a sequence of tokens. The lexical analyzer breaks this syntax into a series of tokens. It removes any extra space or comment written in the source code.

Programs that perform lexical analysis are called lexical analyzers or lexers. A lexer contains tokenizer or scanner. If the lexical analyzer detects that the token is invalid, it generates an error. It reads character streams from the source code, checks for legal tokens, and pass the data to the syntax analyzer when it demands. Example

How Pleasant Is The Weather? See this example; Here, we can easily recognize that there are five words How Pleasant, The, Weather, Is. This is very natural for us as we can recognize the separators, blanks, and the punctuation symbol.

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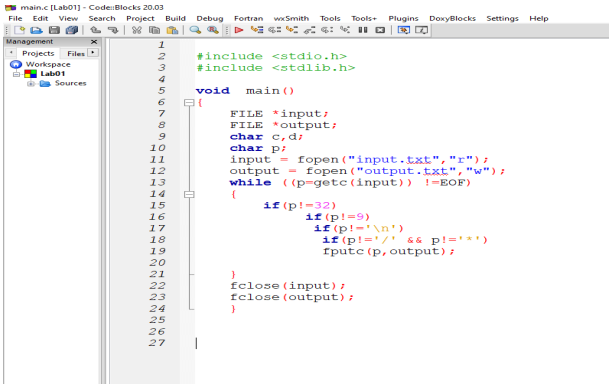

Fig. 1. Assignment-01

II. Literature Review

Before this project i read a book which wrote by **Tamim shahriar subin** .it helps me a lot ,because before i attend to compiler lab class i don't know how to use FILE,pointer ,Header etc.But my honourable teacher **Khan Md.Hasib** suggest me to basic of c language .and he also helps us to understand this topic.

III. Proposed Methodology

the compilation process Source program
1.Lexical analysis 2.Syntax analysis
3.Semantic analysis
4.Intermediate code gen
5.Intermediate representation
6.IR optimization
7.Object code gen
8.Object code optimization
9.Target program
Code for Lab-01

IV. Conclusion and Future Work

This code is depend on ASCII value and aslo File .Firstly is i should learn FILE and pointer .then i learn ASCII value .then i start this project to do. i successfully run it and get the actual output .And hopefully i wil have done the allthis kind of problem solved. In future, what you bring in your project

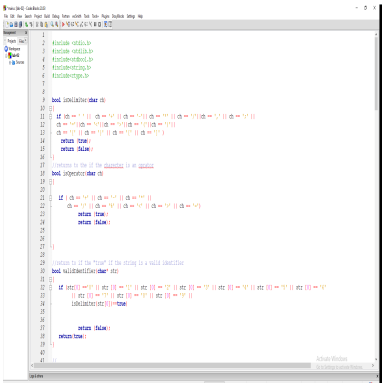

Fig. 2. Assignment-02(1)

and the idea of your work. This code is depend on compiler design .So,Firstly,i will know keyword,tokens,lexeme,and so on .then i start this project to do. i successfully run it and get the actual output .And hopefully i wil have done the allthis kind of problem solved.

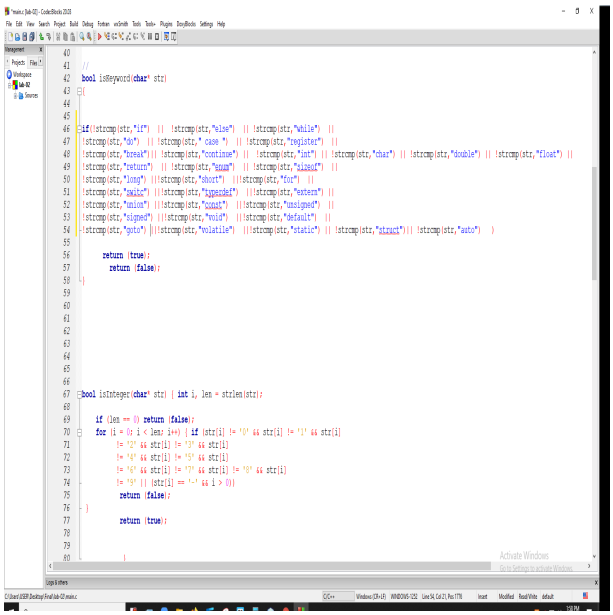

Fig. 3. Assignment-02(2)

ACKNOWLEDGMENT

I would like to thank my honourable**Khan Md. Hasib Sir** for his time, generosity and critical insights into this project.

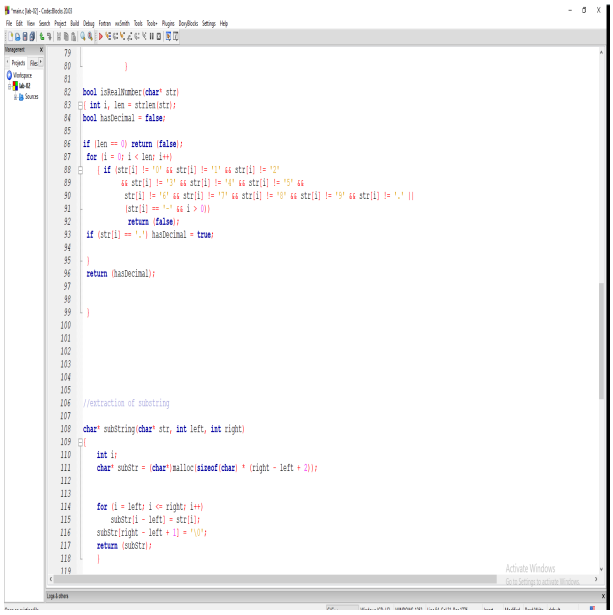

Fig. 4. Assignment-02(3)

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[2] J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.

[3] I. S. Jacobs and C. P. Bean, “Fine particles, thin films and exchange anisotropy,” in Magnetism, vol. III, G. T. Rado and H. Suhl, Eds. New York: Academic, 1963, pp. 271–350.

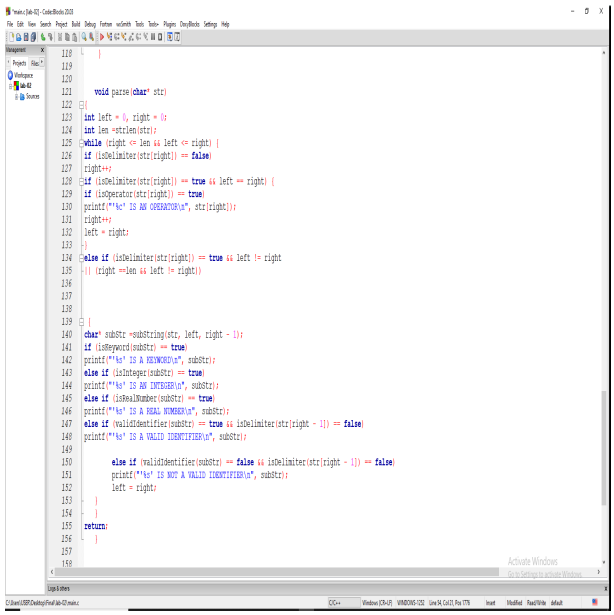

Fig. 5. Assignment-02(4)

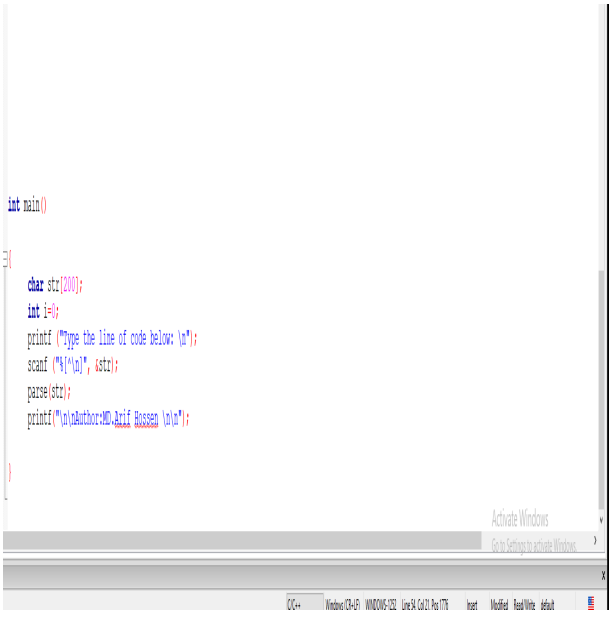

Fig. 6. Assignment-02(5)

Fig. 7. Assignment-02(input)

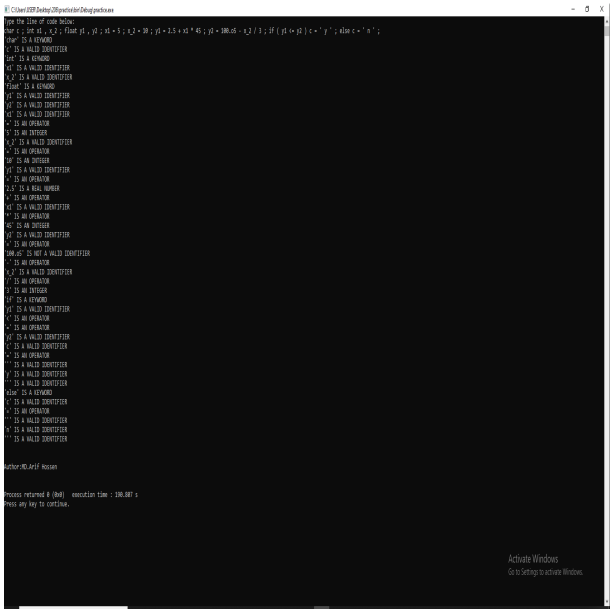

Fig. 8. Assignment-02(output)