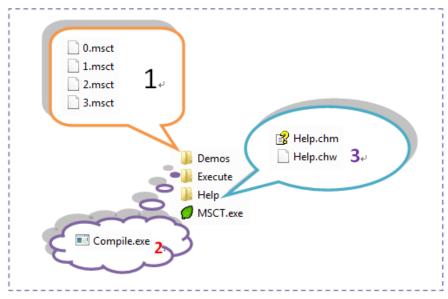
1. Structure

Document Structure Overview

- 1) Demos Folder: Contains four simple MSCT examples named 0.msct, 1.msct, 2.msct, and 3.msct.
- 2) Demos Folder: Includes the compiled program which performs lexical analysis, grammatical analysis, semantic analysis, and executes instructions on a stack-based virtual machine.
- 3) Help.CHM File: Provides grammar, semantics, and instructions for the MSCT compiler. Currently, it includes basic descriptions, with more detailed information to be added later.
- 4) MSCT.exe: Serves as the user interface.



Document structure

2. User Interface (IDE)

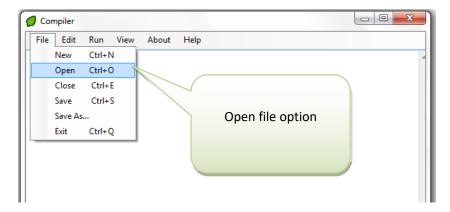
This IDE composed by two parts:1 Code Acre: display source code and virtue machine code2. Result area: Displays compile result, the detail as following shows.

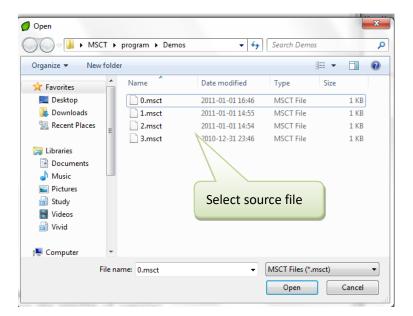
```
_ O _ X
Compiler
File Edit Run View About Help
   /*Right*/
                       Menu⊎
   /*function:calculation factorial*/
   /*describe:
     1.input number;
     2.Caculate sum=1!+2!+...+n!
     3 write sum;
    int number;
                                             Code Area

√
    int sum=0;
    int temp=1;
    read number;
    for(int a=1;a<=number;a=a+1)
     temp=temp*a;
     sum=sum+temp;
    write sum;
Show the results of compile!
    Compile result ₽
                                              Cursor Position⊌
```

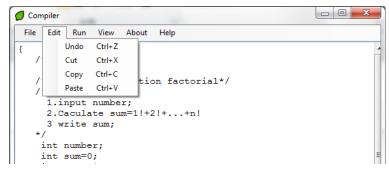
3. Operator guide

3.1 Open source file

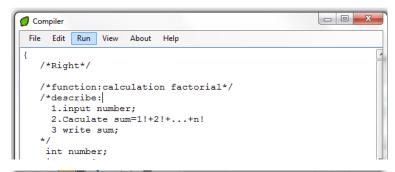


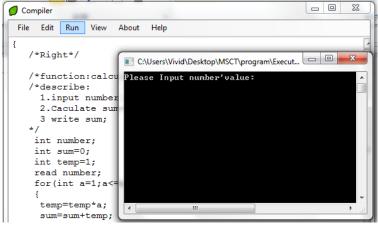


3.2 Edit

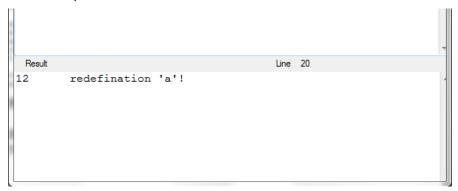


3.3 Run

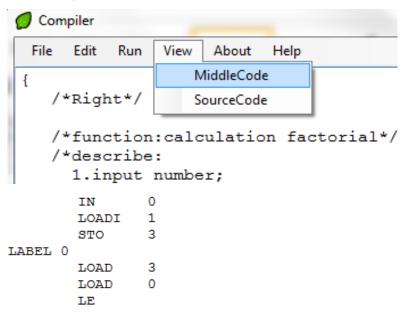




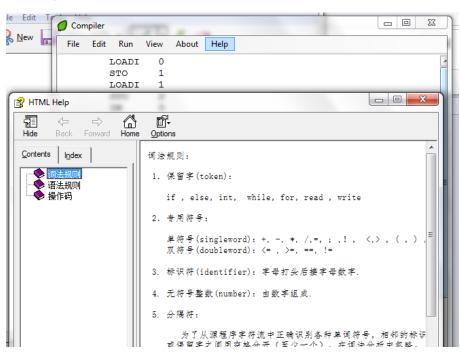
3.4 Look up error informations



3.5 Look up the virture machine code



3.6 Help



3.7 About

