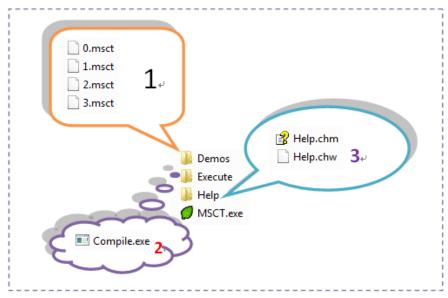
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## 1. Document structure

The structure of Document is as following show.

- 1) Folder of Demos gives four simple example of MSCT. named 0.msct, 1.msct, 2.msct,3.msct (Demos 文件加中给出了4个简单的示例程序)
- 2) Folder of Demos contains the compile program, which Complete lexical analysis, grammatical analysis, semantic analysis and interpretive execution the instructions of stack type virtual machine.
  - (Execute 文件夹中放置了编译器程序 Compile.exe,可以完成词法分析、语法分析、语义分析及栈式虚拟机解释执行功能。)
- 3) File of Help.CHM given the MSCT compiler's grammar, semantics and instruction of stack type virtual machine. To date, only few simply description are given, later I will add more Help 文件夹中的 Help.chm 文件给出了 MSCT 编译器的语法、语义以及栈式虚拟机的指令。目前只给出了简单的说明后续版本将会陆续加入。
- 4) MSCT.exe is the user interface ..



Document structure

## 2. User Interface (IDE)

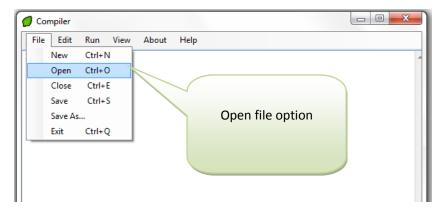
This IDE composed by two parts:1 Code Acre: display source code and virtue machine code2. Result area: Displays compile result, the detail as following shows.

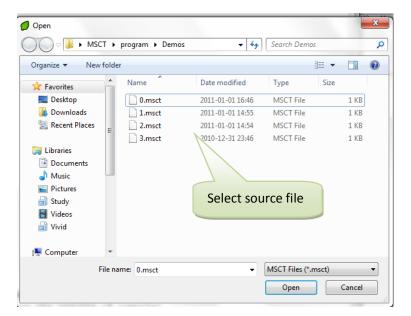
```
_ O X
Compiler
File Edit Run View About Help
   /*Right*/
                       Menu⊬
   /*function:calculation factorial*/
   /*describe:
     1.input number;
     2.Caculate sum=1!+2!+...+n!
     3 write sum;
    int number;
                                             Code Area

√
    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⊌
```

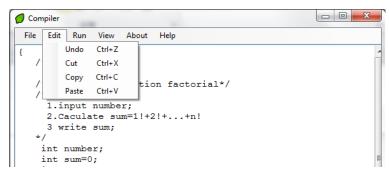
## 3. Operator guide

## 3.1 Open source file





#### 3.2 Edit



#### 3.3 Run

```
File Edit Run View About Help

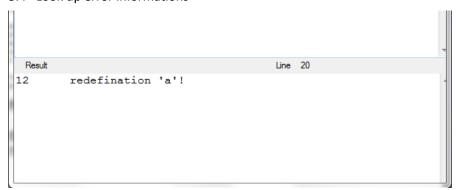
{
    /*Right*/
    /*function:calculation factorial*/
    /*describe:|
    1.input number;
    2.Caculate sum=1!+2!+...+n!
    3 write sum;
    */
    int number;
```

```
_ 0 %
Compiler
 File Edit Run View About Help
   /*Right*/

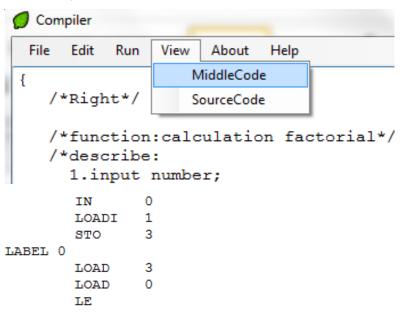
    C:\Users\Vivid\Desktop\MSCT\program\Execut...

   /*function:calcu Please Input number'value:
   /*describe:
     1.input number
     2.Caculate sum
     3 write sum;
    int number;
    int sum=0;
    int temp=1;
    read number;
    for(int a=1;a<=
     temp=temp*a;
     sum=sum+temp;
                    ← III
```

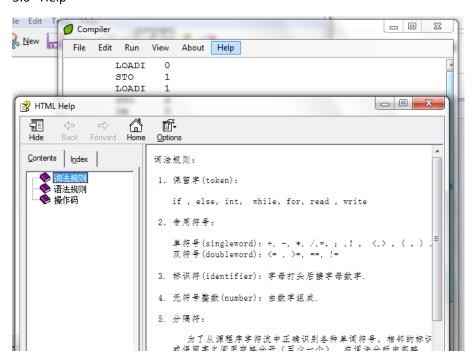
### 3.4 Look up error informations



## 3.5 Look up the virture machine code



## 3.6 Help



## 3.7 About

