

➤ Try to write a program that takes input a C Code. Then ignoring all tabs, white space & new line, identify the following tokens:

1. Keywords = int, main, return, char, if, else.....
2. Operators = +, -, \*, &&, ||, >, <, =.....
3. Symbols = ({, }, ,, ;, ), }, ].....
4. Identifier = my\_name, LengthCount, ans123,.....
5. Function name = main(), myFun(),.....
6. Numbers = 1, 2, 12.44, 43.50,.....

Also, show the symbol table.

Sample Test case:

```
int main()
{
    int a, ans;
    a=12;
}
output:
<int,keyword>
<main(),function>
<{,symbol>
<int, keyword>
<a, identifier>
<,symbol>
<ans, identifier>
<;,symbol>
<a,identifier>
<=,operator>
<12,number>
<;,symbol>
<},symbol>
Symbol table:
<1,a>
<2,ans>
```

Time = 1 Hour.