## CSE 4130: Formal Languages and Compilers Lab [Spring 2020] Final Project

Write a C program to read a source code in C from the console and print a report on the given source code. The report will contain the following:

- 1. The source code with line number
- 2. Any kind of error covered in Session 1 to Session 5
- 3. Header Files
- 4. Identifiers
- 5. Keywords
- 6. Functions

Note that your program will create an output file containing the report and display the report on the console as well.

Sample Input	Sample Output
<pre>#include<stdio.h> /*Program Starts*/ float func(int x)) {     int y;;     for(y; x, ){} //for loop     return 1.5; }  int main() {     int a=1;     if(c)         a=2;     else         a=0;     return 0; }</stdio.h></pre>	Source code with line number:  1. #include <stdio.h> 2. /*Program Starts*/ 3. float func(int x)) 4. { 5. int y;; 6. for(y; x, ){} //for loop 7. return 1.5; 8 9 Errors: At line number 3: Misplaced Parenthesis At line number 5: At line number 6: Header Files: stdio.h Identifiers: func, x, y, Keywords: float, int, Functions: func, main</stdio.h>