```
#include "lexical_analyzer.h"
#include "intermediate code generator.h"
#include "driver.h"
int main(int argc, char * argv []){
  if(argc != 2){
    cout << "Error: Enter the name of the pascal file to parse" << endl;
    exit(0);
  ifstream file(argv[1]);
  if(!file.is open()){
    cout << "Error file: "<<"\""<<argv[1]<<"\"""<<" could not be opened"<<endl;
    exit(0):
  char * file_as_chars = load_file(file);
  cout << "-----"<<endl;
  cout << " Contents of: "<<"\""<<argv[1]<<"\"""<<endl;
  cout << "-----"<<endl:
  cout << file_as_chars << endl;</pre>
  cout << "-----"<<endl:
  vector<symbol> lex symbol table = vector<symbol>();
  vector<icg_symbol> icg_symbol_table = vector<icg_symbol>();
  vector<string> symbols = vector<string>();
  symbols = generate_symbols(file_as_chars);
  lex symbol table = classify symbols (symbols, lex symbol table);
  FILE * output_lex = NULL;
  output lex = fopen("output lex.txt", "w");
```

```
for(vector<symbol>::iterator it = lex_symbol_table.begin(); it != lex_symbol_table.end(); +
+it)
   symbol temp = *it;
   icg_symbol s;
   s.token_type = temp.token_type;
   s.value = temp.value;
   icg_symbol_table.push_back(s);
   const char * token_t = temp.token_type.c_str();
   const char * token = temp.value.c_str();
   fprintf(output_lex,"%s %s\n",token_t, token);
 cout << "-----"<<endl:
 cout << " Output file for lex created" << endl;
 cout << "-----"<<endl:
 cout << "-----"<<endl:
 cout << " Beginning Intermediate Code Generation " <<endl;</pre>
 cout << "-----"<<endl:
 generate_three_address_code(icg_symbol_table);
 cout << "-----"<<endl;
 cout << "Output file for intermediate code generation created" << endl;
 cout << "-----"<<endl:
 cout << " Symbol table: " << endl; cout << "-----"<<endl;
 print_sym_table();
 fclose(output_lex);
 return 0;
```

Driver.h

```
#include <iostream>
#include <fstream>
#include <string>
#include <string.h>
```

```
#include <stdio.h>
#include <vector>
#include <regex>
#include <iomanip>
using namespace std;
```