```
1 /*
      Main.cpp
 3 * Initiates the program
 4 *
 5 * Created: 1/3/2017 by Ryan Tedeschi
 6 */
 8 #include "../shared/Helpers/Helpers.h"
 9 #include "ControlModule.h"
10 #include "Timestamp.h"
11 #include <iostream>
12 #include <string>
13 #include <list>
14
15 #define OTHER 0
16 #define MODULE 1
17 #define LANGUAGE 2
18 #define CODE 3
19 #define CODE F 4
20 int SIZES[] { 0, 10, 12, 6, 7 };
21
22 int paramType(string);
23 string parseParam(string, int);
24 bool stripArgData(string, string*, string*);
25 string unescapeCharacters(string);
26
27 int main(int argCount, char** argArray)
28 {
29
       cout << "Code Analyzer Software Package (CASP)" << endl;</pre>
30
       cout << "Build Date: " << TIMESTAMP << endl;</pre>
31
32
       vector<arg> fnArgs;
33
       vector<string> codeSource;
34
       string sourceLanguage;
35
       string moduleID;
36
37
       for (int i = 1; i < argCount; i++)</pre>
38
39
           int type = paramType(argArray[i]);
40
           string value = parseParam(argArray[i], type);
41
           switch (type) {
42
               case MODULE:
43
                   moduleID = value;
44
                   break;
45
               case LANGUAGE:
46
                   sourceLanguage = value;
47
                   break;
48
               case CODE F:
49
                   value = Helpers::ReadFile(value);
50
               case CODE:
51
                   codeSource.push_back(value);
52
                   break;
53
               default:
54
                   string t, v;
55
                   if (stripArgData(argArray[i], &t, &v)) {
56
                       arg a(t, v);
57
                       fnArgs.push_back(a);
58
                   }
59
60
61
62
       ControlModule control = ControlModule();
63
       control.Run(sourceLanguage, moduleID, codeSource, fnArgs);
64
65
       cout << "CASP - Operation Complete";</pre>
```

```
67
        return 0;
 68 }
 70 int paramType(string input) {
        int type = OTHER;
 72
        if (input.find("/sourcelang=") == 0)
 73
            type = LANGUAGE;
        else if (input.find("/moduleid=") == 0)
 74
 75
            type = MODULE;
 76
        else if (input.find("/code=") == 0)
 77
            type = CODE;
 78
        else if (input.find("/codef=") == 0)
 79
            type = CODE F;
 80
        return type;
 81 }
 82
 83 bool stripArgData(string input, string* id, string* value) {
        int slash = input.find("/");
 84
 85
        int eq = input.find("=");
 86
 87
        if (slash != 0) {
            *id = "";
*value = "";
 88
 89
 90
            return false;
 91
 92
 93
        if (eq == -1) {
 94
            *id = Helpers::toLower(input.substr(1, input.size()));
 95
            *value = "":
 96
            return true;
 97
 98
 99
        *id = Helpers::toLower(input.substr(1, eq - 1));
100
        *value = input.substr(eq + 1, input.size());
101
        return true;
102 }
103
104 string parseParam(string input, int type)
105 {
106
        int size = SIZES[type];
107
        string out = input.substr(size, input.size() - size);
        return out;
108
109 }
```