```cpp
1 /****************************************************************************
2  * AUTHOR       : Saul Moreno
3  * STUDENT ID   : 269491
4  * ASSIGNMENT#5 : Abstract Class
5  * CLASS        : CS1C
6  * SECTION      : MW 5:00pm
7  * DUE DATE     : 3/2/20
8  ****************************************************************************/
9
10 #include "header.h"
11 #include "Shape.h"
12 #include "Square.h"
13 #include "Triangle.h"
14
15 namespace variables
16 {
17     int index;
18
19 }
20
21 int main(int argc, char *argv[])
22 {
23     Triangle tri; // instance of Triangle object
24     Square   sqr; // instance of Square object;
25
26     //This will call the PrintHeader function
27     PrintHeader("Abstract Classes", 5, 'A');
28     std::cout << "This program will take the side of a square and\n"
29               << "three sides of a triangle and it will calculate\n"
30               << "and display the Perimeter and Area of both of\n"
31               << "them using pure virtual functions\n\n";
32     //This will call the function to get the perimeter of the triangle
33     tri.CalcPerimeter(5.0,12.0,13.0);
34     //This will call the function to get the area of the triangle
35     tri.CalcArea(5.0,12.0,13.0);
36     //This will call the function to print out the perimeter and area
37     tri.Print();
38
39     std::cout << std::endl;
40
41     //This will call the function to get the perimeter of the Square
42     sqr.CalcPerimeter(9.99, 0 ,0);
43     //This will call the function to get the area of the Square
44     sqr.CalcArea(9.99, 0 ,0);
45     //This will call the function to print out the perimeter and area
46     sqr.Print();
47
48     std::cout << std::endl;
49     std::cout << std::endl;
50
51     for (variables::index = 1; variables::index < argc; variables::index++ )
52     {
53         std::cout << argv[variables::index] << " " << std::endl;
54     }//endfor(variables::index = 1; variables::index < argc;
55          //variables::index++ )
56
57     std::cout << std::endl;
```

```
58      std::cout << argv[1][1];
59      std::cout << std::endl;
60      std::cout << argv[2][1];
61
62      return 0;
63 }
64
```