

## Menu.cpp

```
1 /*****
2 * AUTHOR      : Ali Eshghi
3 * STUDENT ID   : 1112261
4 * LAB #13      : LAB 13 - ARRAYS AND LINKED LIST (OOP)
5 * CLASS        : CS 1B
6 * SECTION      : MW - 7:30 pm - 9:50 pm
7 * DUE DATE     : 12/3/2019
8 *****/
9
10 #include "MyHeader.h"
11
12 /*****
13 * Function - Menu
14 * -----
15 * This function will outputs the menu and prompts the user
16 * to choose an option from the menu
17 *
18 * return type - integer
19 *               the function is int type
20 *****/
21
22 int Menu()
23 {
24
25     /*****
26     * VARIABLE *
27     *****/
28
29     int menuOption;
30     bool checkInp;
31
32     /*****
33     * INITIALIZATION *
34     *****/
35
36     checkInp = false;
37
38     //do while loop for input check
39     do
40     {
41
42         cout << "SHEEP LIST MANAGER" << endl;
43         cout << "1 - Add Sheep" << endl;
44         cout << "2 - Output 1st Sheep" << endl;
45         cout << "3 - Find Sheep" << endl;
46         cout << "4 - List Size" << endl;
47         cout << "5 - Output List" << endl;
48         cout << "6 - Clear list" << endl;
49         cout << "0 - Exit" << endl;
50         cout << "Enter a command: ";
51
52
53
54         //CHECKS FOR THE CHAR INPUT
55
```

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```
56  if (!(cin >> menuOption))
57  {
58      cin.clear();
59      cin.ignore(numeric_limits<streamsize>::max(), '\n');
60
61      cout << endl;
62      cout << "**** Please input a NUMBER between 0 or 6 ****";
63      cout << endl << endl;
64
65      checkInp = false;
66
67  }
68
69  //CHECKS FOR THE RANGE ERROR
70
71  else if (menuOption > 6 || menuOption < 0 )
72  {
73
74      cout << endl;
75      cout << "**** The number " << menuOption
76      << " is an invalid entry ****" << endl;
77      cout << "**** Please input a number between 0 or 6 ****";
78      cout << endl << endl;
79
80      checkInp = false;
81
82  }
83
84  checkInp = true;
85
86  }while(!checkInp);
87
88
89  return menuOption;
90 }
91
92
93
```