

ChangeValue.cpp

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1 /*****
2  * PROGRAMMER : Ali Eshghi & Amirarsalan Valipour
3  * STUDENT ID : 1112261 & 1103126
4  * CLASS      : CS1B
5  * SECTION    : MW 7:30pm
6  * Assign #2  : tic-tac-toe game (multi-dimensional arrays)
7  * DUE DATE   : 19 September 2019
8  *****/
9
10 #include "MyHeader.h"
11 #include "ClassHeader.h"
12
13 /*****
14  * ChangeAge
15  * This function asks the user for the new value that the user wants to change
16  *
17  * RETURNS: float
18  *****/
19
20 float ChangeValue()
21 {
22     /*****
23      * VARIABLES *
24      *****/
25
26     float  newValue; //IN - user input for new value
27     bool checkInp; //PROCESS - input checking
28
29     /*****
30      * INITIALIZE *
31      *****/
32
33     checkInp = false;
34
35     //do while loop for error checking
36     do
37     {
38         //INPUT
39
40         cout << "\nNEW VALUE: ";
41
42
43
44         //CHECKS FOR THE CHAR INPUT
45
46         if (!(cin >> newValue))
47         {
48             cin.clear();
49             cin.ignore(numeric_limits<streamsize>::max(), '\n');
50
51             cout << endl;
52             cout << "**** Please input a NUMBER between 0 and 400000 ****";
53             cout << endl << endl;
54
55             checkInp = false;
```

```

56
57     }
58
59     //CHECKS FOR THE RANGE ERROR
60
61     else if (newValue >= 400001 || newValue <= -1 )
62     {
63
64         cout << endl;
65         cout << "**** The number "           << newValue
66         << " is an invalid entry      ****" << endl;
67         cout << "**** Please input a number between 0 and 400000 ****";
68         cout << endl << endl;
69
70         checkInp = false;
71
72     }
73
74     //PASS
75
76     else
77     {
78
79         cin.ignore(numeric_limits<streamsize>::max(), '\n');
80         checkInp = true;
81
82     }
83
84     }while(!checkInp);
85
86     //returns float to the main
87     return newValue;
88 }
89
90
91
92
93

```