```
1 #include <stdbool.h>
 2 #include <stdio.h>
 3 #include <stdlib.h>
 4 #define SAFE MODE false
 6 // clear standard inout buffer.
 7 void clear_stdin(void)
8 {
9
       char dummy;
       while ((dummy = getchar()) != '\n');
10
11 }
12
13 // Get number from user.
14 double get_double(char prompt_str[], long MIN, long MAX)
15 {
16
       double input;
17
       int scanned;
18
19
       while (1)
20
       {
21
           // Print prompt string.
22
           printf(prompt_str);
23
           // Scan for number.
           scanned = scanf("%lf", &input);
24
25
           // Catch non-numeric input error.
26
           if (scanned == 0)
27
28
           {
29
               printf("\nFORMAT ERROR!!! Non-numeric input detected.\n\n");
30
               // If close_on_input_error is true, close program.
               if (SAFE_MODE == true)
31
32
                    puts("Program closing...");
33
34
                    exit(0);
35
               }
36
               clear_stdin();
37
               continue;
38
           }
39
           // Catch out of bounds error.
40
41
           if (!(input >= MIN && input <= MAX))
42
               printf("\nFORMAT ERROR!!! Number is out of range.\n\n");
43
               // If close_on_input_error is true, close program.
44
               if (SAFE_MODE == true)
45
46
47
                    puts("Program closing...");
48
                    exit(0);
49
               clear_stdin();
50
51
               continue;
52
53
           break;
54
55
       return input;
56 }
57
58
59
```

localhost:4649/?mode=clike 1/1