```
//Mahmoud Elsayd Eldwakhly
1
 3
 4
    // LAP ASSIGNMENT 6
 6
8 #include <iostream>
9 #include <cstring>
10 #include <cmath>
11 using namespace std;
12
13
14
15
    void mystrcopy (char z [] , char s [])
16
17
        for ( int i = 0 ; i < strlen(s) +1 ; i ++ )</pre>
18
19
            z[i] = s[i];
20
21
22
    }
23
24
25
26 int mystrlen(char s [])
27
        int i = 0 ;
28
29
        while (s[i] != '\0')
30
           i++ ;
31
            return i ;
32
    }
33
34
35
36 int mystrcmp (char s1[] , char s2 [] )
37
38
        int z = (strlen(s1) > strlen(s2)) ? strlen(s1) : strlen(s2) ;
39
        for (int i = 0 ; i < z ; i ++ )</pre>
40
41
        if (s1[i] < s2 [i] ) return -1;</pre>
        else if (s1[i] > s2 [i] ) return 1 ;
42
43
44
    return 0 ;
45
46
47
    // 4-
48
49
   int myatoi (char s [])
50
51
        int result =0 ;
52
53
54
        for (int i = 0 ; i < strlen (s) ; i++)</pre>
55
            result = result * 10 + (s[i]-'0');
57
58
        return result ;
59
60
61
   // 5-
62
63
64
   float myatof (char m [])
65
66
        int dotindex = -1;
        for ( int i = 0 ; i < strlen(m) ; i ++ )</pre>
67
68
            if ( m[i] == '.' )
69
70
71
                 dotindex = i ;
72
                 break ;
73
74
75
        if (dotindex == -1)
76
            return atoi(m) ;
77
        float integerpart = 0 ;
78
        for (int i = 0 ; i < dotindex ; i ++ )</pre>
```

```
79
 80
                  integerpart = integerpart * 10 + (m[i] - '0') ;
 81
             float floatpart = 0 ;
 82
 83
             for (int i = dotindex + 1 ; i < strlen(m) ; i ++ )</pre>
 84
 85
                    floatpart += (m[i]-'0')* pow(10, dotindex -i);
 86
 87
             return integerpart + floatpart ;
 88 }
 89
 90
 91
 92
 93 int main()
 94 {
            char z [50] ;
char m [20] = {'m', 'a', 'h', 'm', 'o', 'u', 'd'} ;
 95
 96
 97
           mystrcopy (z,m) ;
         mystrcopy (z,m);
cout << z << endl;
cout << mystrlen(z) << endl;
cout << mystrcmp ("abcd", "abcd") << endl;
cout << mystrcmp ("abce", "abcd") << endl;
cout << mystrcmp ("abcd", "abce") << endl;
cout << mystrcmp ("abcd", "abce") << endl;
cout << mystrc ("123.45") << endl;</pre>
 98
 99
100
101
102
103
           cout << myatof ("123.45") << endl ;</pre>
104
105
106
107
            return 0;
108 }
109
```