

**Lab 14**

```
1  #include <stdio.h>
2  main()
3  {
4      char first, second, third, fourth, fifth, blank, end = 'y';
5
6      int work = 0;
7
8      while (work == 0 && end == 'y')
9      {
10         first = '0';
11         second = '0';
12         third = '0';
13         fourth = '0';
14         fifth = '0';
15         while (work == 0)
16         {
17             printf("Enter First Word : ");
18             scanf(" %c", &first);
19             work = 1;
20         }
21         while (first < 'A' && work == 1)
22         {
23             printf("\n\"Enter only character\\\"\\n");
24             work = 0;
25         }
26
27         while (work == 1)
28         {
```

```
29     while (first >= 'A' && second < 'A')
30     {
31         printf("Enter Second Word : ");
32         scanf(" %c", &second);
33     }
34     while (second < 'A')
35     {
36         printf("\n\nEnter only character\n\n");
37         break;
38     }
39     while (second >= 'A' && third < 'A')
40     {
41         printf("Enter Third Word : ");
42         scanf(" %c", &third);
43     }
44     while (third < 'A')
45     {
46         printf("\n\nEnter only character\n\n");
47         break;
48     }
49     while (third >= 'A' && fourth < 'A')
50     {
51         printf("Enter Fourth Word : ");
52         scanf(" %c", &fourth);
53     }
54     while (fourth < 'A')
55     {
56         printf("\n\nEnter only character\n\n");
57         break;
58     }
```

```
59     while (fourth >= 'A' && fifth < 'A')
60     {
61         printf("Enter Fifth Word : ");
62         scanf(" %c", &fifth);
63     }
64     while (fifth < 'A')
65     {
66         printf("\n\Enter only character\\"\n");
67         break;
68     }
69     while (first >= 'A' && second >= 'A' && third >= 'A' && fourth >= 'A' && fifth >= 'A' &&
70 work == 1)
71     {
72         while (first > second || second > third || third > fourth || fourth > fifth)
73         {
74             while (first > second)
75             {
76                 blank = second;
77                 second = first;
78                 first = blank;
79             }
80             while (second > third)
81             {
82                 blank = second;
83                 second = third;
84                 third = blank;
85             }
86             while (third > fourth)
87             {
88                 blank = third;
```

```
89         third = fourth;
90         fourth = blank;
91     }
92     while (fourth > fifth)
93     {
94         blank = fourth;
95         fourth = fifth;
96         fifth = blank;
97     }
98 }
99
100     printf("\n \"result : %c %c %c %c %c\"", first, second, third, fourth, fifth);
101     printf("\n\n");
102     work = 0;
103 }
104 while (work == 0)
105 {
106     printf("\n\"Continue ? (y/N) : \");
107     scanf(" %c", &end);
108     work = 2;
109 }
110 while (end == 'N')
111 {
112     printf("\n\"End Program\\n\n");
113     break;
114 }
115 }
116 work = 0;
117 }
118 }
```