

## Lab 10

```
1  #include <stdio.h>
2
3  main()
4  {
5      char ch1, ch2, ch3, ch4, ch5, ch6, out = 'y';
6      char in1, in2, in3, in4, in5, in6;
7      int len1, len2, run = 0;
8
9      while (out == 'y')
10     {
11         len1 = 0;
12         len2 = 0;
13         while (len1 <= 0)
14         {
15             printf("\nUser 1 : Please enter word size (maximum 6): ");
16             scanf("%d", &len1);
17             if (len1 < 0 || len1 > 6)
18             {
19                 printf("\nEnter number in range 0 - 6 !!!\n");
20                 len1 = 0;
21             }
22             else
23             {
24                 printf("\nUser 1 : Please enter word : ");
25                 if (len1 == 1)
26                 {
27                     scanf(" %c", &ch1);
28                 }
```

```
29         else if (len1 == 2)
30         {
31             scanf(" %c%c", &ch1, &ch2);
32         }
33         else if (len1 == 3)
34         {
35             scanf(" %c%c%c", &ch1, &ch2, &ch3);
36         }
37         else if (len1 == 4)
38         {
39             scanf(" %c%c%c%c", &ch1, &ch2, &ch3, &ch4);
40         }
41         else if (len1 == 5)
42         {
43             scanf(" %c%c%c%c%c", &ch1, &ch2, &ch3, &ch4, &ch5);
44         }
45         else if (len1 == 6)
46         {
47             scanf(" %c%c%c%c%c%c", &ch1, &ch2, &ch3, &ch4, &ch5, &ch6);
48         }
49         run = 1;
50     }
51 }
52
53 while (run == 1 && len2 == 0)
54 {
55     printf("\nUser 2 : Please enter word size (maximum 6): ");
56     scanf(" %d", &len2);
57
58     if (len2 >= 1 && len2 <= 6)
```

```
59      {
60          printf("\nUser 2 : Please enter word want to search : ");
61          if (len2 == 1)
62          {
63              scanf(" %c", &in1);
64              if (in1 == ch1)
65              {
66                  printf("\nword \"%c\" found in text at 1 ", in1);
67              }
68              else if (in1 == ch2)
69              {
70                  printf("\nword \"%c\" found in text at 2 ", in1);
71              }
72              else if (in1 == ch3)
73              {
74                  printf("\nword \"%c\" found in text at 3 ", in1);
75              }
76              else if (in1 == ch4)
77              {
78                  printf("\nword \"%c\" found in text at 4 ", in1);
79              }
80              else if (in1 == ch5)
81              {
82                  printf("\nword \"%c\" found in text at 5 ", in1);
83              }
84              else if (in1 == ch6)
85              {
86                  printf("\nword \"%c\" found in text at 6 ", in1);
87              }
88              else
```

```
89         {
90             printf("\n\"%c\" was not found in text", in1);
91         }
92     }
93     else if (len2 == 2)
94     {
95         scanf(" %c%c", &in1, &in2);
96         if (in1 == ch1)
97         {
98             if (in1 == ch1 && in2 == ch2)
99             {
100                 printf("\nword \"%c%c\" found in text at 1 ", in1, in2);
101             }
102             else
103             {
104                 printf("\n\"%c%c\" was not found in text", in1, in2);
105             }
106         }
107     else if (in1 == ch2)
108     {
109         if (in1 == ch2 && in2 == ch3)
110         {
111             printf("\nword \"%c%c\" found in text at 2 ", in1, in2);
112         }
113         else
114         {
115             printf("\n\"%c%c\" was not found in text", in1, in2);
116         }
117     }
118     else if (in1 == ch3)
```

```
119      {
120          if (in1 == ch3 && in2 == ch4)
121          {
122              printf("\nword \"%c%c\" found in text at 3", in1, in2);
123          }
124          else
125          {
126              printf("\n\"%c%c\" was not found in text", in1, in2);
127          }
128      }
129      else if (in1 == ch4)
130      {
131          if (in1 == ch4 && in2 == ch5)
132          {
133              printf("\nword \"%c%c\" found in text at 4", in1, in2);
134          }
135          else
136          {
137              printf("\n\"%c%c\" was not found in text", in1, in2);
138          }
139      }
140      else if (in1 == ch5)
141      {
142          if (in1 == ch5 && in2 == ch6)
143          {
144              printf("\nword \"%c%c\" found in text at 5 ", in1, in2);
145          }
146          else
147          {
148              printf("\n\"%c%c\" was not found in text", in1, in2);
```

```
149         }
150     }
151     else
152     {
153         printf("\n\"%c%c\" was not found in text", in1, in2);
154     }
155 }
156 else if (len2 == 3)
157 {
158     scanf(" %c%c%c", &in1, &in2, &in3);
159     if (in1 == ch1)
160     {
161         if (in1 == ch1 && in2 == ch2 && in3 == ch3)
162         {
163             printf("\nword \"%c%c%c\" found in text at 1 ", in1, in2, in3);
164         }
165         else
166         {
167             printf("\n\"%c%c%c\" was not found in text", in1, in2, in3);
168         }
169     }
170     else if (in1 == ch2)
171     {
172         if (in1 == ch2 && in2 == ch3 && in3 == ch4)
173         {
174             printf("\nword \"%c%c%c\" found in text at 2 ", in1, in2, in3);
175         }
176         else
177         {
178             printf("\n\"%c%c%c\n was not found in text", in1, in2, in3);
```

```
179         }
180     }
181     else if (in1 == ch3)
182     {
183         if (in1 == ch3 && in2 == ch4 && in3 == ch5)
184         {
185             printf("\nword \"%c%c%c\" found in text at 3 ", in1, in2, in3);
186         }
187     else
188     {
189         printf("\n\"%c%c%c\" was not found in text", in1, in2, in3);
190     }
191 }
192 else if (in1 == ch4)
193 {
194     if (in1 == ch4 && in2 == ch5 && in3 == ch6)
195     {
196         printf("\nword \"%c%c%c\" found in text at 4 ", in1, in2, in3);
197     }
198     else
199     {
200         printf("\n\"%c%c%c\" was not found in text", in1, in2, in3);
201     }
202 }
203 else
204 {
205     printf("\n\"%c%c%c\" was not found in text", in1, in2, in3);
206 }
207 }
208 else if (len2 == 4)
```

```
209      {
210          scanf(" %c%c%c%c", &in1, &in2, &in3, &in4);
211          if (in1 == ch1)
212          {
213              if (in1 == ch1 && in2 == ch2 && in3 == ch3 && in4 == ch4)
214              {
215                  printf("\nword \"%c%c%c%c\" found in text at 1 ", in1, in2, in3, in4);
216              }
217              else
218              {
219                  printf("\n\"%c%c%c%c\" was not found in text", in1, in2, in3, in4);
220              }
221          }
222          else if (in1 == ch2)
223          {
224              if (in1 == ch2 && in2 == ch3 && in3 == ch4 && in4 == ch5)
225              {
226                  printf("\nword \"%c%c%c%c\" found in text at 2 ", in1, in2, in3, in4);
227              }
228              else
229              {
230                  printf("\n\"%c%c%c%c\" was not found in text", in1, in2, in3, in4);
231              }
232          }
233          else if (in1 == ch3)
234          {
235              if (in1 == ch3 && in2 == ch4 && in3 == ch5 && in4 == ch6)
236              {
237                  printf("\nword \"%c%c%c%c\" found in text at 3 ", in1, in2, in3, in4);
238              }
```



```
239         else
240         {
241             printf("\n\"%c%c%c%c%c\" was not found in text", in1, in2, in3, in4);
242         }
243     }
244     else
245     {
246         printf("\n\"%c%c%c%c%c\" was not found in text", in1, in2, in3, in4);
247     }
248 }
249 else if (len2 == 5)
250 {
251     scanf(" %c%c%c%c%c", &in1, &in2, &in3, &in4, &in5);
252     if (in1 == ch1)
253     {
254         if (in1 == ch1 && in2 == ch2 && in3 == ch3 && in4 == ch4 && in5 == ch5)
255         {
256             printf("\nword \"%c%c%c%c%c\" found in text at 1 ", in1, in2, in3, in4, in5);
257         }
258         else
259         {
260             printf("\n\"%c%c%c%c%c\" was not found in text", in1, in2, in3, in4, in5);
261         }
262     }
263     else if (in1 == ch2)
264     {
265         if (in1 == ch2 && in2 == ch3 && in3 == ch4 && in4 == ch5 && in5 == ch6)
266         {
267             printf("\nword \"%c%c%c%c%c\" found in text at 2 ", in1, in2, in3, in4, in5);
268         }
```

```

269         else
270         {
271             printf("\n\"%c%c%c%c%c%c\" was not found in text", in1, in2, in3, in4, in5);
272         }
273     }
274     else
275     {
276         printf("\n\"%c%c%c%c%c%c\" was not found in text", in1, in2, in3, in4, in5);
277     }
278 }
279 else if (len2 == 6)
280 {
281     scanf(" %c%c%c%c%c%c", &in1, &in2, &in3, &in4, &in5, &in6);
282     if (in1 == ch1)
283     {
284         if (in1 == ch1 && in2 == ch2 && in3 == ch3 && in4 == ch4 && in5 == ch5 &&
285 in6 == ch6)
286         {
287             printf("\nword \"%c%c%c%c%c%c\" was found in text ", in1, in2, in3, in4,
288 in5, in6);
289         }
290     else
291     {
292         printf("\n\"%c%c%c%c%c%c\" was not found in text ", in1, in2, in3, in4, in5,
293 in6);
294     }
295 }
296 else
297 {
298     printf("%c%c%c%c%c%c was not found in text", in1, in2, in3, in4, in5, in6);

```

```
299         }
300     }
301     run = 0;
302 }
303 else
304 {
305     printf("\nEnter number in range 0 - 6 !!!\n");
306     len2 = 0;
307 }
308 }
309 while (run == 0)
310 {
311     printf("\n\nContinue Program ? (y/N) : ");
312     scanf(" %c", &out);
313     if (out == 'y' || out == 'N')
314     {
315         run = 1;
316         ch1 = '0', ch2 = '0', ch3 = '0', ch4 = '0', ch5 = '0', ch6 = '0';
317         in1 = '0', in2 = '0', in3 = '0', in4 = '0', in5 = '0', in6 = '0';
318     }
319     else
320     {
321         printf("Enter only \" y \" or \"N\"");
322     }
323 }
324 if (out == 'N')
325 {
326     printf("\nEnd Program\n");
327 }
328 }
```

```
329     printf("\n");  
330 }
```