

while_dowhile_loop.c

```
1  #include <stdio.h>
2  // Example of while and do-while loops in C
3  int main() {
4      int n;
5      // Prompt user for input
6      printf("Enter a positive integer: ");
7      scanf("%d", &n);
8      // Print numbers from 1 to n
9      int i = 1;
10     while (i <= n) {
11         printf("%d\n", i);
12         i++;
13     }
14
15     // example of do-while loop
16     int j = 1;
17     printf("Using do-while loop:\n");
18     do {
19         printf("%d\n", j);
20         j++;
21     } while (j <= n);
22
23     return 0;
24 }
25
26 /*****
27  * Output Example:
28  * Enter a positive integer: 5
29  * 1
30  * 2
31  * 3
32  * 4
33  * 5
34  * Using do-while loop:
35  * 1
36  * 2
37  * 3
38  * 4
39  * 5
40  *****/
41 */
42
```