

**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
```