

VOLUME3.c C sum.c C diff\_triangles.c C bmi.c C collinear.c C 04\_activity.c C struct1.c

C day4\_q7.c > main()

```
1 // Q7: Write a program to swap two numbers without using a third variable.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 10 20
7 Output 1:
8 After swap: 20 10
9
10 Input 2:
11 7 14
12 Output 2:
13 After swap: 14 7
14
15 */
16
17 #include <stdio.h>
18
19 int main()
20 {
21     int a, b;
22
23     printf("Enter two numbers: ");
24     scanf("%d %d", &a, &b);
25
26     printf("Before swapping: a = %d, b = %d\n", a, b);
27
28     a = a + b;
29     b = a - b;
30     a = a - b;
31
32     printf("After swapping: a = %d, b = %d\n", a, b);
33
34     return 0;
35 }
36
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day4\_q7.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

Enter two numbers: 10 20

Before swapping: a = 10, b = 20

After swapping: a = 20, b = 10

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day4\_q7.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

Enter two numbers: 7 14

Before swapping: a = 7, b = 14

After swapping: a = 14, b = 7

PS C:\Users\drago\OneDrive\Desktop\C H.W> █

C n\_sum.c &gt; main()

```
1 // Q8: Write a program to find and display the sum of the first n natural numbers.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 5
7 Output 1:
8 Sum=15
9
10 Input 2:
11 10
12 Output 2:
13 Sum=55
14
15 */
16
17 #include <stdio.h>
18 int main()
19 {
20     float n, sum;
21     printf("THE THE VALUE OF n:\n");
22     scanf("%f", &n);
23
24     sum = (n / 2) * (2 + (n - 1));
25     printf("SUM OF FIRST %.0f terms is: %.2f\n", n, sum);
26     return 0;
27 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; gcc .\n\_sum.c

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; ./a.exe

THE THE VALUE OF n:

5

SUM OF FIRST 5 terms is: 15.00

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; gcc .\n\_sum.c

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; ./a.exe

THE THE VALUE OF n:

10

SUM OF FIRST 10 terms is: 55.00

PS C:\Users\drago\OneDrive\Desktop\C H.W&gt; |