

C program that swaps values of two variables without using a third variable.

main.c		Run	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 int a, b; 5 6 printf("Enter two numbers a and b: "); 7 scanf("%d %d", &a, &b); 8 9 printf("Before swapping: a = %d, b = %d\n", a, b); 10 11 // Swapping without using a third variable 12 a = a + b; // Step 1: Add both numbers and store in 'a' 13 b = a - b; // Step 2: Subtract new 'a' by 'b' to get original 'a' 14 a = a - b; // Step 3: Subtract new 'a' by new 'b' to get original 'b' 15 16 printf("After swapping: a = %d, b = %d\n", a, b); 17 18 return 0; 19 }</pre>	Enter two numbers a and b: 4 6 Before swapping: a = 4, b = 6 After swapping: a = 6, b = 4 == Code Execution Successful ==		

C Program to Convert Celsius to Fahrenheit

main.c		Run	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 float celsius, fahrenheit; 5 6 // Input temperature in Celsius 7 printf("Enter temperature in Celsius: "); 8 scanf("%f", &celsius); 9 10 // Conversion formula 11 fahrenheit = (celsius * 9 / 5) + 32; 12 13 // Display result 14 printf("Temperature in Fahrenheit = %.2f\n", fahrenheit); 15 16 return 0; 17 } 18 19 </pre>	Enter temperature in Celsius: 25 Temperature in Fahrenheit = 77.00 == Code Execution Successful ==		

C Program to Calculate Power of a Number Using Loop

main.c				Run	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 int base, exponent; 5 long long result = 1; 6 int i; 7 8 // Input base and exponent 9 printf("Enter base: "); 10 scanf("%d", &base); 11 12 printf("Enter exponent: "); 13 scanf("%d", &exponent); 14 15 // Calculate power using loop 16 for (i = 1; i <= exponent; i++) { 17 result = result * base; 18 } 19 20 // Display result 21 printf("%d^%d = %lld\n", base, exponent, result); 22 23 return 0; 24 }</pre>				Enter base: 5 Enter exponent: 3 5^3 = 125 == Code Execution Successful ==	

Program to check if a number is a multiple of 3, 7, both, or neither.

main.c				Run	Output
<pre>1 #include <stdio.h> 2 3 int main() { 4 int num; 5 6 printf("Enter a number: "); 7 scanf("%d", &num); 8 9 if (num % 3 == 0 && num % 7 == 0) 10 printf("%d is a multiple of both 3 and 7.\n", num); 11 else if (num % 3 == 0) 12 printf("%d is a multiple of 3.\n", num); 13 else if (num % 7 == 0) 14 printf("%d is a multiple of 7.\n", num); 15 else 16 printf("%d is neither a multiple of 3 nor 7.\n", num); 17 18 return 0; 19 }</pre>				Enter a number: 21 21 is a multiple of both 3 and 7. == Code Execution Successful ==	

Program to print even numbers from 1 to 50.

The screenshot shows a code editor interface with a dark theme. On the left, the code file 'main.c' is displayed with line numbers 1 through 17. The code itself is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     int i;
5
6     printf("Even numbers from 1 to 50:\n");
7
8     for (i = 1; i <= 50; i++) {
9         if (i % 2 == 0)
10             printf("%d ", i);
11     }
12
13     printf("\n");
14     return 0;
15 }
16
17
```

At the top right, there are several icons: a copy icon, a brightness icon, a share icon, and a 'Run' button. To the right of the run button is the 'Output' tab. The output window displays the following text:

Even numbers from 1 to 50:
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50
== Code Execution Successful ==

Program to find the sum of all odd numbers from 1 to 50.

The screenshot shows a code editor interface with a dark theme. On the left, the code file 'main.c' is displayed with line numbers 1 through 15. The code itself is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     int i, sum = 0;
5
6     for (i = 1; i <= 50; i++) {
7         if (i % 2 != 0)
8             sum += i;
9     }
10
11     printf("Sum of all odd numbers from 1 to 50 = %d\n", sum);
12
13     return 0;
14 }
15
```

At the top right, there are several icons: a copy icon, a brightness icon, a share icon, and a 'Run' button. To the right of the run button is the 'Output' tab. The output window displays the following text:

Sum of all odd numbers from 1 to 50 = 625
== Code Execution Successful ==