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

```c
#include <stdio.h>

int main() {
    int a, b;

    printf("Enter two numbers a and b: ");
    scanf("%d %d", &a, &b);

    printf("Before swapping: a = %d, b = %d\n", a, b);

    // Swapping without using a third variable
    a = a + b;  // Step 1: Add both numbers and store in 'a'
    b = a - b;  // Step 2: Subtract new 'a' by 'b' to get original 'a'
    a = a - b;  // Step 3: Subtract new 'a' by new 'b' to get original 'b'

    printf("After swapping: a = %d, b = %d\n", a, b);

    return 0;
}
```

Output:
```
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

```c
#include <stdio.h>

int main() {
    float celsius, fahrenheit;

    // Input temperature in Celsius
    printf("Enter temperature in Celsius: ");
    scanf("%f", &celsius);

    // Conversion formula
    fahrenheit = (celsius * 9 / 5) + 32;

    // Display result
    printf("Temperature in Fahrenheit = %.2f\n", fahrenheit);

    return 0;
}
```

Output:
```
Enter temperature in Celsius: 25
Temperature in Fahrenheit = 77.00

=== Code Execution Successful ===
```

C Program to Calculate Power of a Number Using Loop

```c
#include <stdio.h>

int main() {
    int base, exponent;
    long long result = 1;
    int i;

    // Input base and exponent
    printf("Enter base: ");
    scanf("%d", &base);

    printf("Enter exponent: ");
    scanf("%d", &exponent);

    // Calculate power using loop
    for (i = 1; i <= exponent; i++) {
        result = result * base;
    }

    // Display result
    printf("%d^%d = %lld\n", base, exponent, result);

    return 0;
}
```

Output:
```
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.

```c
#include <stdio.h>

int main() {
    int num;

    printf("Enter a number: ");
    scanf("%d", &num);

    if (num % 3 == 0 && num % 7 == 0)
        printf("%d is a multiple of both 3 and 7.\n", num);
    else if (num % 3 == 0)
        printf("%d is a multiple of 3.\n", num);
    else if (num % 7 == 0)
        printf("%d is a multiple of 7.\n", num);
    else
        printf("%d is neither a multiple of 3 nor 7.\n", num);

    return 0;
}
```

Output:
```
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.

```
main.c                              Share    Run     Output

1  #include <stdio.h>                               Even numbers from 1 to 50:
2                                                    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
3  int main() {
4      int i;                                        === Code Execution Successful ===
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
```

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

```
main.c                              Share    Run     Output

1  #include <stdio.h>                               Sum of all odd numbers from 1 to 50 = 625
2
3  int main() {
4      int i, sum = 0;                               === Code Execution Successful ===
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
```