

```
#include <stdio.h>

int main() {
    int a, b;
    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);
    printf("Before swapping: a = %d, b = %d\n", a, b);

    // swap the values of a and b using two variables
    a = a + b;
    b = a - b;
    a = a - b;

    printf("After swapping: a = %d, b = %d\n", a, b);
    return 0;
}
```

Explanation

In this program, we first declare two integer variables `a` and `b`. Then we ask the user to input two numbers using the `scanf()` function. We print the original values of `a` and `b` using the `printf()` function.

To swap the values of `a` and `b` using two variables, we use the following steps:

1. Add `a` and `b` and store the result in `a`: `a = a + b;`
2. Subtract `b` from `a` and store the result in `b`: `b = a - b;`
3. Subtract the original value of `b` from `a` and store the result in `a`: `a = a - b;`

Finally, we print the swapped values of a and b using the printf() function.

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