

45. C program that reads two numbers from the user and prints their absolute difference:

```
#include <stdio.h>

#include <stdlib.h>

int main() {

    int num1, num2, difference;

    // Read two numbers from the user
    printf("Enter the first number: ");
    scanf("%d", &num1);
    printf("Enter the second number: ");
    scanf("%d", &num2);

    // Calculate the absolute difference
    difference = abs(num1 - num2);

    // Print the absolute difference
    printf("The absolute difference is: %d\n", difference);

    return 0;
}
```