

Aufgabe 5:

Sourcecode

```
#include <stdlib.h>
#include <stdio.h>
#include <unistd.h>
#include <fcntl.h>

int main(int argc, char *argv[]) {

    unsigned int done = 0, led1 = 0, led2 = 0;
    unsigned char leds;

    int ledfile = open("/dev/leds", O_WRONLY);
    if (ledfile < 0)
    {
        perror("file open");
        return EXIT_FAILURE;
    }

    while (!done)
    {
        printf("LED 1 und LED 2:\n");
        if (scanf("%d %d", &led1, &led2) != 2)
        {
            printf("Falsche Eingabe.\n");
            return EXIT_FAILURE;
        }
        if (led1 > 1 || led2 > 1)
        {
            printf("Falsche Eingabe.\n");
            continue;
        }
        leds = 0;
        leds = led1 | (led2 << 1) | ((led1 ^ led2) << 2) | ((led1 | led2) <<
3);
        if (write(ledfile, &leds, 1) < 1)
        {
            perror("write");
            return EXIT_FAILURE;
        }
        printf("Wollen sie aufhören?\n");
        if (scanf("%d", &done) != 1)
        {
            printf("Falsche Eingabe.\n");
            return EXIT_FAILURE;
        }
    }

    if (close(ledfile))
    {
        perror("file close");
        return EXIT_FAILURE;
    }
    return EXIT_SUCCESS;
}
```