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;

}