ODHS TaskPhase-7

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🔴🔴🔴TASK 7🔴🔴🔴

This task is to help you understand how to include and use a library in your program

You can use the following as reference and search more on it.

<https://www.geeksforgeeks.org/c-c-include-directive-with-examples/>

Problem statement-

Write a code for 2 LEDs toggling alternatively.

Submit .c and .h files to parikshit.odhs@gmail.com

Deadline: 19th December 2023, time: 23:59

# CODE

#include <stdio.h>

#include <stdlib.h>

#include "ledFunctions.h"

void main()

{

    //initize led

    LED \*l1;

    LED \*l2;

     l1= (LED \* ) malloc(sizeof(LED));

    l2= (LED \* ) malloc(sizeof(LED));

    int n;

    initializeLED(l1,1);

    initializeLED(l2,2);

    printf("state of led after initialization : \n");

    printLED(l1);

    printLED(l2);

    //setting led

    setLED(l1);

    setLED(l2);

    printf("state of led after setting : \n");

    printLED(l1);

    printLED(l2);

    //resetting led

    //setting led

    resetLED(l1);

    resetLED(l2);

    printf("state of led after resetting : \n");

    printLED(l1);

    printLED(l2);

// toggling leds

    printf("enter number of times to be toggled : \n");

    scanf("%d",&n);

    //setting one led as on and one as off

    setLED(l1);

    resetLED(l2);

    printf("state just before toggling : \n");

    printLED(l1);

    printLED(l2);

    printf("\ntoggling the leds alternatively");

    for (int i=0;i<n;i++)

    {//toggles led 1 only

        if (i%2==0)

            toggleLED(l1);

        else

            toggleLED(l2); //toggles led 2

        printf("\n%dth toggle : \n",(i+1));

        printLED(l1);

        printLED(l2);

    }

}

# OUTPUT

