MUHKO Kildekode

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```
#include <90s8535.h>
#include <delay.h>

int         i=0,j=0,k=0,n=0;
long        l=0,m=0;

void sluk_drift(void) {
            PORTC=0b00000000;
}

void frem(void) {
            PORTD=0b10000000;
            PORTC=0b00000001;
}

void tilbage(void) {
            PORTD=0b00000000;
            PORTC=0b00000001;
}

void left_frem(void) {
            PORTD=0b10000000;
            PORTC=0b00000011;
}

void right_frem(void) {
            PORTD=0b10000000;
            PORTC=0b00000111;
}

void start(void) {
            delay_ms(200);
            for(i=0;i!=3;i++) {
                        for(j=0;j!=50;j++){
                                    PORTD=0b00000000;
                                    delay_ms(1);
                                    PORTD=0b01000000;
                                    delay_ms(1);
                        }
                        PORTD=0b00000000;
                        delay_ms(900);
            }
            PORTD=0b01000000;
            delay_ms(1000);
            PORTD=0b00000000;
}

void left_tilbage(void) {
            PORTD=0b00000000;
            PORTC=0b00000011;
            l=0;
            while ((l != 150000) && (k != 1)) {
                        if ((PINA.6) || (PINA.7)) k = 1;
                        l++;
            }
            if (k) {
                        right_frem();
                        delay_ms(1500);
            }
            k=0;
            l=0;
}
```

```
void right_tilbage(void) {
            PORTD=0b00000000;
            PORTC=0b00000111;
            l=0;
            while ((l != 150000) && (k != 1)) {
                        if ((PINA.6) || (PINA.7)) k = 1;
                        l++;
            }
            if (k) {
                        left_frem();
                        delay_ms(1500);
            }
            k=0;
            l=0;
}

void main(void) {
            PORTA=0x00;
            DDRA=0x00;
            PORTB=0x00^255;
            DDRB=0xFF;
            PORTC=0x00;
            DDRC=0xFF;
            PORTD=0x00;
            DDRD=0xFF;
            TCCR0=0x00;
            TCNT0=0x00;
            TCCR1A=0x00;
            TCCR1B=0x00;
            TCNT1H=0x00;
            TCNT1L=0x00;
            OCR1AH=0x00;
            OCR1AL=0x00;
            OCR1BH=0x00;
            OCR1BL=0x00;
            ASSR=0x00;
            TCCR2=0x00;
            TCNT2=0x00;
            OCR2=0x00;
            GIMSK=0x00;
            MCUCR=0x00;
            TIMSK=0x00;
            ACSR=0x80;
            start();
            frem();
            while (1) {
                        if (PINA.4) {
                                    sluk_drift();
                                    while ((l != 100000) && (k == 0)) {
                                                if (PINA.5) k = 1;
                                                l++;
                                    }
                                    l=0;
                                    if (k) {
                                                if (k == 1) {
                                                            tilbage();
                                                            delay_ms(1000);
                                                            right_tilbage();
                                                            left_frem();
                                                            delay_ms(1000);
                                                            frem();
                                                }
                                                k = 0;
                                    }
                                    else  {
                                                right_tilbage();
                                                frem();
                                    }
```

```
                        }
                        if (PINA.5) {
                                    sluk_drift();
                                    while ((l != 100000) && (k == 0)) {
                                                if (PINA.4) k = 1;
                                                l++;
                                    }
                                    l=0;
                                    if (k) {
                                                if (k == 1) {
                                                            tilbage();
                                                            delay_ms(1000);
                                                            left_tilbage();
                                                            delay_ms(500);
                                                            right_frem();
                                                            delay_ms(1000);
                                                            frem();
                                                }
                                                k = 0;
                                    }
                                    else {
                                                left_tilbage();
                                                frem();
                                    }
                        }
            }
}
```