Mikro
- Lab
Ödev 4

— Soru 2 —
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kadar

```c
#include <main.h>
#fuses HS, NOWDT, NOPROTECT
#use delay (clock=4000000)

#define pin-up      pin-A0
#define pin-stop    pin-A2
#define display1    pin-C0
#define display2    pin-C1
#define display3    pin-C2
#define display4    pin-C3

int  a, b, loop, c = 0;
int  birler, onlar = 0;
unsigned long int digit=0;
int up, stop = 0;
int number[10]= { 0x3F, 0x06, 0x5B,
0x4F, 0x66, 0x6D, 0x7C, 0x07, 0x7F, 0x6F};
int cls[4]= { 0x56, 0x38, 0x6D, 0x79};
int opn[4]= {0x5C, 0x73, 0x78, 0x54};

void button_stop() {
```

```c
if (input (pin- stop) && !input (pin—up))
{   stop = 1;
    up, a, b = 0;
    Output_c (0x00);
    Output_b (0x00);
    digit = 0;
    while (input (pin-stop));
}   up=0;  }

void button-UP ()  {
    if (!input (pin-stop) && input (pin-up))
{
    output_c (0x00);
    up = 1;
    a, c, b, loop = 0;
    stop = 0;
    if (digit = 99)
    digit = 0;
}   while (input (pin-up));
}
}

void main () {
set_tris_a (0xFF);
set_tris_b (0x00);
set_tris_c (0x00);
output_b (0x00);
output_c (0x00);

while (TRUE) {
```

```
{
    Output_c(0xFF);
    Output_b(0x00);
    delay_ms(20);
    loop=0;
    Output_b(0x80);
    a=0;
    delay_ms(20);

    button_stop();
    button_up();
        while (up==1){
        for (int t=0; t<5; t++){
    Output_high(display1);
    Output_b(OPn[3]);
    delay_ms(5);
    Output_low(display1);
    Output_high(display2);
    Output_b(OPn[2]);
    delay_ms(5);
    Output_low(display 2);
    Output_high(display 3);
    @Output_b(OPn[1]);
    delay_ms(5);
    Output_low(display3);
    Output_high(display4);
    Output_b(OPn[0]);
    delay_ms(5);
    Output_low(display4);
        button_stop();
        if(stop==1) break;  }
```

```
if (stop==1) break;

for (int y=0; y<200; y++)
{
    birler = digit % 10;
    onlar = digit / 10;
    digit ++;
    )
    if (digit ==100) {
    digit = 9;
    loop ++;  }

    for (int u=0; u<3; u++) {
    output - high (display 1);
    output - b (number [birler]);
    delay - ms (5);
    output - low (display 1);

    output - high (display 2);
    output - b (number [onlar]);
    delay - ms (5);
    output - low (display 2);
    button - stop();
    if (stop==1)
        break;  }
    if (stop ==1) break;
    if (loop = 2) {
    for (int t=0; t<5; t++)
    {
```

```
Output_high (display1);
Output_b (cls[3]);
delay_ms (5);
output_low (display1);
Output_high (display2);
Output_b (cls[2]);
delay_ms(5);
Output_low (display2);
Output_high (display3);
output_b (cls[1]);
delay_ms (5);
Output_low (display3);
Output_high (display4);
Output_b (cls[0]);
delay_ms (5);
Output_low (display4);
button_stop();
if (stop==1) break; }
up=0;
break;
}    if(stop==1) break; }}}
```

- Soru 3 -

```
#include <CITAK.h>
#fuses HS, NOWDT, NOPROTECT
#use delay (clock=4000000)
#define pin_plus  pin_A0
#define pin_minus pin_A1
#define pin_stop  pin_A2
```

```c
int segment [10] = {0x3F, 0x06, 0x5B,
0x4F, 0x66, 0x6D, 0x7C, 0x07, 0x7F
0x6F};

int number, a, b = 9;

void main () {
    set_tris_a (0xFF);
    set_tris_b (0x00);
    set_tris_c (0x00);
    output_b (0x3F);
    output_c (0x01);
    while (TRUE) {

        if (input (pin_plus)) {
            number ++;
            if (number == 10) number = 0;
            output_b (segment [number]);
            while (input (pin_plus));
        }
        if (input (pin_stop)) {
            number = 0;
            output_b (segment [number]);
            while (input (pin_stop));
        }
        if (input (pin_minus)) {
            number --;
            if (number == -1) number = 9;
            output_b (segment [number]);
            while (input (pin_minus));
        }
    }
}
```