Deney 11

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1. Ödev

```
#include <16f877A.h>
#fuses HS,NOWDT,NOPROTECT
#use delay(clock=4000000)
#define buton_1 pin_A0
#define buton_2 pin_A1

const int ileri_digit[4]={0x03,0x06,
0x0C,0x09};
int ileri=0;
const int geri_digit[4]={0x09,0x0C,
0x06,0x03};
int geri=0;
int i,j,k,adim=0;

void buton(){
 if(input(buton_1))
   {ileri=1;
    geri=0;}
 if(input(buton_2)){
   ileri=0;
   geri=1;
}}
```

```
void delay_buton(){
for(int t=0; t<1000; t++)
 {
   buton();
  delay_ms(10); }}
void main(){
  set_tris_a(0xff);
   set_tris_c(0x00);
   output_c(0x00);
while(1){
   buton();
   while(ileri==1 && geri==0){
for(i=0; i<2; i++)
  {  for(k=0; k<4; k++){

adim=(adim+1)%4;
output_c(ileri_digit[adim]);
delay_buton();
if(geri==1 && ileri==0)
  break;
}
}
ileri=0;
} while( ileri==0 && geri==1)
{ for(y=0; y<2; y++) {

   adim=(adim-1)%4
   output_c(ileri_digit[adim]);
   delay_buton();
```

```
if (geri==0 && ileri ==1)
  break; }
  if(geri==0 && ileri ==1)
  break;
    } geri=0; }}
```

Ödev 2

```
#include <16f877a.h>
#fuses HS, NOWDT, NOPROTECT
#use delay(clock=8000000)

#define button_start_stop PIN_A3
#define button_way PIN_A2
#define button_speed_up PIN_A0
#define button_speed_down PIN_A1

const int digit[4] = {0x03, 0x06,
0x0C, 0x09};

int start=0;
int way=0;
int speed=10;
int x=0;
int a, i, k, u;

void start_stop(){
if(input(button_start_stop)){
x+=1; }
while(input(button_start_stop));
start = x%2;
if(start==10) start=0;
```

```
void change_speed (){
if (input (button_speed_up){
 speed += 5;
  while (input (button_speed_up));
}
if (input (button_speed_down){
 speed -= 5;
 while (input (button_speed_down))
}}

void change_way (){
 if (input (button_way))
  i += 1.
while (input (button_way));
way = i %2.
 if(way == 0)
 way = 0;
}
 void delay_button()
{
  for (i=0; i<5; i++)
  { start_stop();
    change_way();
    change_speed();
    delay_ms (speed);
    if (start == 0)
   break;
  }
}
```

```
void main(){
  set_tris_a(0xff);
  set_tris_c(0x00);
  output_c(0x00);
while (1){
   start_stop();
   change_way();
   change_speed();
  while (start==1){
 for(a=0; a<4; a++){
  if (way==0)
  i=(i+1)%4;
  if (way==1)
  i=(i-1)%4;
  output_c(digit[i]);
  delay_button();
   if (start==0)break;}

  start_stop();
  change_way();
  if (start==0)
   break;
}}}
```