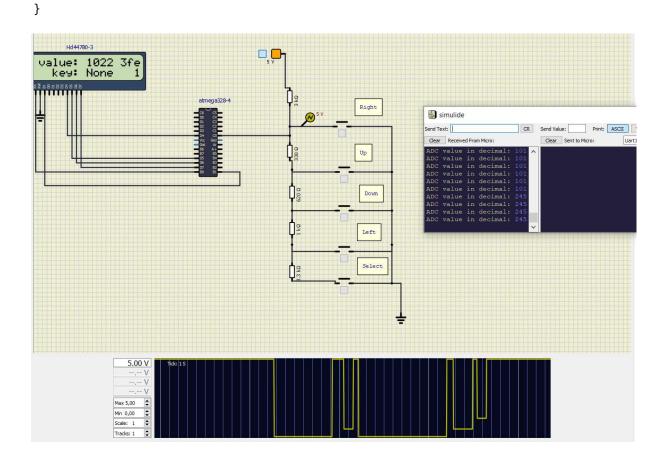
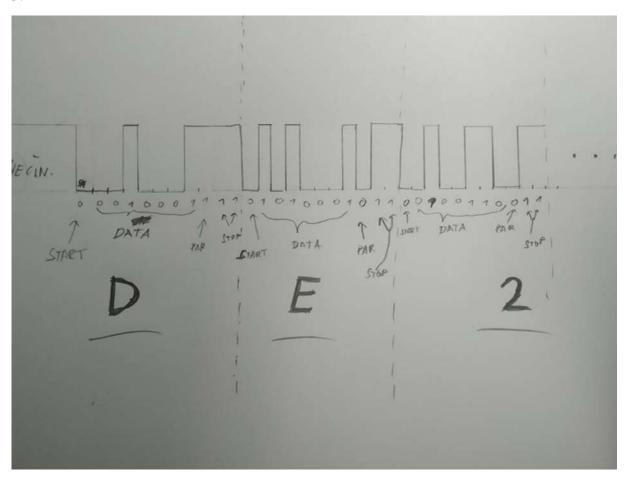
Push button	PC0[A0] voltage	ADC value (calculated)	ADC value (measured)
Right	0 V	0	0
Up	0.495 V	101	101
Down	1.203 V	246	245
Left	1.969 V	402	402
Select	3.182 V	651	650
none	5 V	1023	1022

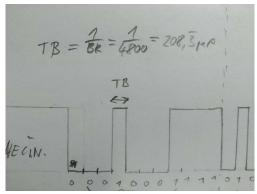
2.

```
ISR(ADC_vect)
    //clear decimal and hex position
       uint16_t value = ADC;
char lcd_string[8] = "
       lcd_gotoxy(8, 0);
       lcd_puts(lcd_string);
       //print ADC value on LCD in decimal
       itoa(value, lcd_string, 10);
       lcd_gotoxy(8, 0);
       lcd_puts(lcd_string);
       if (value < 700)
       {
              // Send data uart
              uart_puts("ADC value in decimal: ");
              uart_puts(lcd_string);
uart_puts("\r\n");
       }
       //print ADC value on LCD in hex
       itoa(value, lcd_string, 16);
       lcd_gotoxy(13, 0);
       lcd_puts(lcd_string);
       //clear key positions
       itoa(value, lcd_string, 16);
       lcd_gotoxy(8, 1);
lcd_puts(" ");
       lcd_gotoxy(8, 1);
              if (value > 1016)
       {
              lcd_puts("None");
       }
       //
       else if (1017 > value && value > 549)
       {
              lcd_puts("Select");
       }
```



3.





```
//par bit odd
    lcd_gotoxy(15,1);
    if(value %2 == 0)
    {
        lcd_puts("1");
    }
    else
    {
        lcd_puts("0");
}
```