SPI CODES

1- INITIALIZE MASTER

```c
void  spi_init_master (void) {

    DDRB = (1 << 5) | (1 << 3);  // MOSI & SCK → out

    SPCR = (1 << SPE) | (1 << MSTR) | (1 << SPR0);

    SPCR |= (1 << SPIE);

    sei();   // Enable Global Interrupts
}
```

2- INITIALIZE SLAVE

```c
void  spi_init_slave (void) {

    DDRB = (1 << 4);    // MISO out

    SPCR = (1 << SPE);
}
```

3- SEND & RECEIVE DATA FOR BOTH MASTER & SLAVE

```c
unsigned char  spi_transreceiver (unsigned char data) {

    SPDR = data;

    /* Wait until transmission complete */
    while (! (SPSR & (1 << SPIF)));   ⟶ when SPSR.SPIF = 0
                                        ↳ true, döngü

    return (SPDR);                    ⟶ when SPSR.SPIF = 1
}                                        ↳ false, döngüden çık.
```