Chapter 3 – Hardware Interfacing

Communication: USART

```
void action(unsigned char c){
switch(c){
case 'n':
  PORTC|=0x0f; //on PC0-PC3.
  LED ON
  break;
case 'f':
  PORTC&=0xf0; //off PC0-PC3.
  LED OFF
  break;
case '1': case '2': case '3': case '4':
  PORTC^=(1<<(c-'1'));
  blink(c-'0');
  break;
```

```
int main(void){
DDRC=0xFF; //use C to show UDR.
PORTC=0x00; //logic 0 to PORTC
DDRB=0xFF; //for LED blinking
init_usart(115200);
sei(); //enable global interrupt.
while(1){
  if(0 \le cmd)
    UDR0=(unsigned char) cmd;
        //echo
    action((unsigned char) cmd);
    cmd=-1; //clear buffer
```