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void runloop(int loopcount) {
    _Bool continueRunLoop = TRUE;
    char str[64] = "";
    char choice = 'q';
    unsigned char c = 0;
    unsigned int i;
    unsigned int pin = 0;
    unsigned int value = 0;
    unsigned int value2 = 0;
    // poll LCD_Display
    DISPLAY_Tick();
    // debug info
    printf("\n\nMIOS.ACSim(%i) >> ", loopcount);
    // poll timer
    Timer();
    // read input
    fgets(str, 32, stdin);    // MAX chars = 32; this is NOT protected
    // against buffer overflows!!!
    choice = str[0];
    switch (choice) {

        case 'q': // quit
        case 'x':
            continueRunLoop = FALSE;
            break;

        case ' ': // OK
            debug_din_value[DEBUG_BUTTON_OK] = 0;
            DIN_NotifyToggle(DEBUG_BUTTON_OK,
            debug_din_value[DEBUG_BUTTON_OK]);
            break;

        case '+': // ENC++
            for(i=0;i<32;i++) { if(str[i]=='+') { c++; } }
            ENC_NotifyChange(DEBUG_ENCODER, c);
            break;

        case '-': // ENC --
            for(i=0;i<32;i++) { if(str[i]=='-') { c--; } }
            ENC_NotifyChange(DEBUG_ENCODER, c);
            break;

        case 'a': // AIN...
            sscanf(str, "a%i,%i", &pin, &value);
            if((pin > DEBUG_AIN_NUM) || (value > 1023)) {
                printf("! max_pin=9, max_value=1023 !");
                pin = 0; value = 0;
            } else {
                printf("scanning pin %i: %i", pin, value);
                // "set" pin values:
                debug_ain_value[pin] = value;
            }
        }
    }
}
```

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        AIN_NotifyChange(pin, value);
    }
    break;

case 'd': // DIN...
    sscanf(str, "d%i,%i", &pin, &value);
    // invert value for easier remembrance
    value = value ^ 0x1;
    DIN_NotifyToggle(pin, value);
    break;

case 'e': // ENC # ++/--
    sscanf(str, "e%i", &pin);
    if(pin > DEBUG_ENC_NUM) {
        printf("! max_enc = %i", (DEBUG_ENC_NUM - 1));
        return;
    }
    for(i=3;i<32;i++) {
        if(str[i]=='+') {
            c++;
        } else if(str[i]=='-') {
            c--;
        }
    }
    ENC_NotifyChange(pin, c);
    break;

case 'j': // set jumper pin
    sscanf(str, "j%i", &pin);
    switch(pin) {
        case 10:
            PORTCbits.RC5 = 1;
            Timer();
            PORTCbits.RC5 = 0;
            Timer();
            break;
        case 14:
            PORTDbits.RD4 = 1;
            Timer();
            PORTDbits.RD4 = 0;
            Timer();
            break;
        default:
            printf("pin %i not (yet?) supported", pin);
            break;
    }
    break;

case 'm': // MIDI Receive (m msgType, argA, argB)
    sscanf(str, "m%i,%i,%i", &pin, &value, &value2);
    MPROC_NotifyReceivedEvtnt(pin,value,value2);
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        break;

    case 'r': // random
        pin = ACRandomPin();
        value = ACRandomInt();
        printf("scanning pin %i: %i", pin, value);
        // "set" pin values:
        debug_ain_value[pin] = value;
        AIN_NotifyChange(pin, value);
        break;

    case 't': // test function
        sscanf(str, "t%i", &value);
//         for example:
//         IIC_SPEAKJET_Transmit14bit(value);
//         printf("\nDEC: %i \tPARAM3: %X \tPARAM2: %X \tPARAM1: %X",
value, MIOS_PARAMETER3, MIOS_PARAMETER2, MIOS_PARAMETER1);
        break;

    default:
        // nothing...
        break;
}

if(continueRunLoop) {
    runloop(++loopcount);
}
}

// ***** MAIN *****
int main(int argc, char **argv) {
    int exit_code = 0;

    // manual:
    printf("\n+++++ MIOS-DEBUG-CONSOLE +++++\n");
    printf("(r)and (a)(pin), (value) (d)(pin), (state) \n");
    printf("(e{opt.})(++)(-) (j)umper(pin) \n");
    printf("(m)idi(msg), (argA), (argB) \n");
    printf("(SPACE)OK e(x)it + [ENTER] \n\n");

    // init debug
    srandomdev(); // set the random seed

    // init MIOS
    Init();
    DISPLAY_Init();
    Timer();
}
```

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printf("\n");

// runloop
runloop(0);

return exit_code;
}
```

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