**int** counter = 50;

**int** dot\_counter = 100;

**void** **HAL\_TIM\_PeriodElapsedCallback** ( TIM\_HandleTypeDef \* htim )

{

counter--;

dot\_counter--;

**if** (dot\_counter <= 0) {

dot\_counter = 100;

HAL\_GPIO\_TogglePin ( DOT\_GPIO\_Port , DOT\_Pin) ;

}

**if** (counter <= 0) {

counter = 50;

**if** (sevenseg == 1) {

sevenseg = 2;

display7SEG(1);

HAL\_GPIO\_WritePin ( EN0\_GPIO\_Port , EN0\_Pin, *GPIO\_PIN\_RESET* ) ;

HAL\_GPIO\_WritePin ( EN3\_GPIO\_Port , EN3\_Pin, *GPIO\_PIN\_SET* ) ;

} **else** **if** (sevenseg == 2) {

sevenseg = 3;

display7SEG(2);

HAL\_GPIO\_WritePin ( EN1\_GPIO\_Port , EN1\_Pin, *GPIO\_PIN\_RESET* ) ;

HAL\_GPIO\_WritePin ( EN0\_GPIO\_Port , EN0\_Pin, *GPIO\_PIN\_SET* ) ;

} **else** **if** (sevenseg == 3) {

sevenseg = 4;

display7SEG(3);

HAL\_GPIO\_WritePin ( EN2\_GPIO\_Port , EN2\_Pin, *GPIO\_PIN\_RESET* ) ;

HAL\_GPIO\_WritePin ( EN1\_GPIO\_Port , EN1\_Pin, *GPIO\_PIN\_SET* ) ;

} **else** **if** (sevenseg == 4) {

sevenseg = 1;

display7SEG(0);

HAL\_GPIO\_WritePin ( EN3\_GPIO\_Port , EN3\_Pin, *GPIO\_PIN\_RESET* ) ;

HAL\_GPIO\_WritePin ( EN2\_GPIO\_Port , EN2\_Pin, *GPIO\_PIN\_SET* ) ;

}

HAL\_GPIO\_TogglePin ( LED\_RED\_GPIO\_Port , LED\_RED\_Pin ) ;

}

}



