

Function name	MTIM1_vInit	
Arguments	Input	none
	Output	none
Return	none	
Description	Initialization of timer 1	

Function name	MTIM1_vSetCounterValue		
Arguments	Input	A_u16CNT_Value	The counter value
	Output	none	
Return	none		
Description	This fuction is responsible for load the counter register with the desired value		

Function name	MTIM1_vSetPrescalerValue		
Arguments	Input	A_u16PSC_Value	Prescaling value
	Output	none	
Return	none		
Description	This fuction is responsible for setting the prescaler value		

Function name	MTIM1_vSetAutoReloadValue		
Arguments	Input	A_u16PSC_Value	Autoreloaded Prescaling value
	Output	none	
Return	none		
Description	This fuction is responsible to auto reload the prescaler value		

Function name	MTIM1_vSetRepetitionValue		
Arguments	Input	A_u8RCR_Value	Repetition value
	Output	none	
Return	none		
Description	This fuction is responsible to set the repetition value		

Function name	MTIM1_vSetCompareReg1Value		
Arguments	Input	A_u16CCR1_Value	The value to be loaded in the actual capture/compare 1 register
	Output	none	
Return	none		
Description	This fuction is responsible to compare the preloded value with the counter value		

Function name	MTIM1_u16GetCaptureReg1 Value	
Arguments	Input	none
	Output	none
Return	none	
Description	This fuction is responsible to get the capture value of reg 1	

Function name	MTIM1_vSetCompareReg2Value		
Arguments	Input	A_u16CCR2_Value	The value to be loaded in the actual capture/compare 2 register
	Output	none	
Return	none		
Description	This fuction is responsible to compare the preloded value in reg2 with the counter value		

Function name	MTIM1_u16GetCaptureReg2Value	
Arguments	Input	none
	Output	none
Return	none	
Description	This fuction is responsible to get the capture value of reg 2	

Function name	MTIM1_vSetCompareReg3Value		
Arguments	Input	A_u16CCR3_Value	The value to be loaded in the actual capture/compare 3 register
	Output	none	
Return	none		
Description	This fuction is responsible to compare the preloded value in reg3 with the counter value		

Function name	MTIM1_u16GetCaptureReg3Value	
Arguments	Input	none
	Output	none
Return	none	
Description	This fuction is responsible to get the capture value of reg 3	

Function name	MTIM1_vSetCompareReg4Value		
Arguments	Input	A_u16CCR4_Value	The value to be loaded in the actual capture/compare 4 register
	output	none	
Return	none		
Description	This fuction is responsible to compare the preloded value in reg4 with the counter value		

Function name	MTIM1_u16GetCaptureReg4Value	
Arguments	Input	none
	Output	none
Return	none	
Description	This fuction is responsible to get the capture value of reg4	

Function name	MTIM1_vGeneratePWM		
Arguments	Input	A_u8T1CHx	Timer 1 channel
		A_u8PWM_Mode	The pwm selected mode
		A_u8CenterMode	Center-aligned mode selection
		A_u16PSC_Value	prescaling value
		A_u16ARR_Value	Timer auto reload value
		A_u16CCRx_Value	Compare counter register value
	Output	none	
Return	none		
Description	This fuction is responsible for generating PWM signal		

Function name	MTIM1_vReadPWM	
Arguments	Input	none
	Output	none
Return	none	
Description	This function is responsible for reading PWM signal	

Function name	MTIM1_vEnableCounter	
Arguments	Input	none
	Output	none
Return	none	
Description	This function is responsible for enabling counter	

Function name	MTIM1_vDisableCounter	
Arguments	Input	none
	Output	none
Return	none	
Description	This function is responsible for disabling counter	