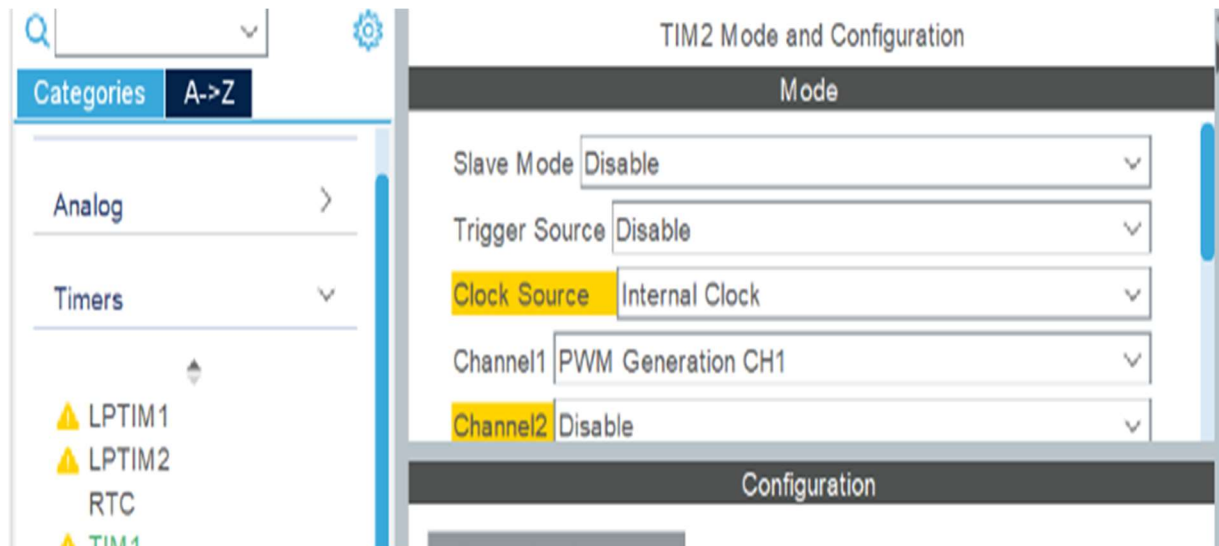ASSIGNMENT -3

Name: Sharwari Daware

Shift2 Track2

Code:

```
96    /* USER CODE BEGIN Init */
97
98    /* USER CODE END Init */
99
100   /* Configure the system clock */
101   SystemClock_Config();
102
103   /* USER CODE BEGIN SysInit */
104
105   /* USER CODE END SysInit */
106
107   /* Initialize all configured peripherals */
108   MX_GPIO_Init();
109   MX_DFSDM1_Init();
110   MX_I2C2_Init();
111   MX_QUADSPI_Init();
112   MX_SPI3_Init();
113   MX_USART1_UART_Init();
114   MX_USART3_UART_Init();
115   MX_TIM2_Init();
116   MX_TIM1_Init();
117   /* USER CODE BEGIN 2 */
118   HAL_TIM_PWM_Start(&htim2, TIM_CHANNEL_1);
119   /* USER CODE END 2 */
120
121   /* Infinite loop */
122   /* USER CODE BEGIN WHILE */
123
124   while (1)
125   {
126     /* USER CODE END WHILE */
127
```

TIM2 Mode and Configuration

Mode

Slave Mode Disable

Trigger Source Disable

Clock Source Internal Clock

Channel1 PWM Generation CH1

Channel2 Disable

Configuration

Categories | A->Z

Analog >

Timers ∨

⚠ LPTIM1
⚠ LPTIM2
   RTC
⚠ TIM1

✅ NVIC Settings   ✅ DMA Settings   ✅ GPI

✅ Parameter Settings   ✅ User Cons

Configure the below parameters :

🔍 Search (Crtl+F)   ◁   ▷

Master/Slave Mode (MS... Disable (Trigger Input en
Trigger Event Selection ... Reset (UG bit from TIMx
∨ Clear Input
   Clear Input Source   Disable
∨ PWM Generation Channel 1
   Mode   PWM mode 1
   Pulse (32 bits value)   2000
   Output compare preload   Enable
   Fast Mode   Disable
   CH Polarity   High

Ouput

Led blinking for 2 sec->(40% duty cycle)