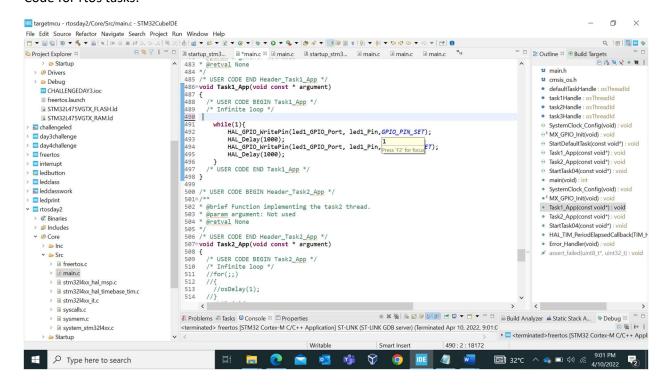
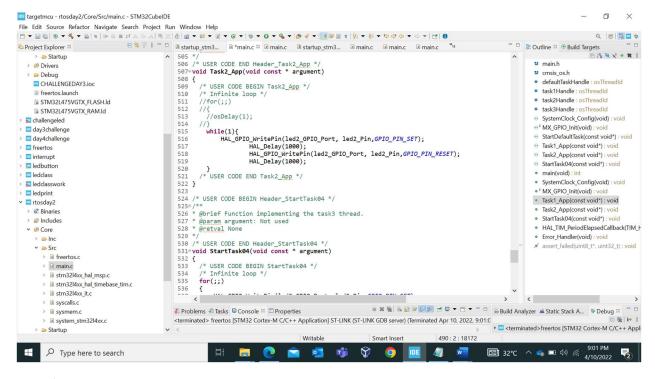
#### **ASSIGNMENT-4**

Name: Sharwari Daware

Shift2 Track2

#### Code for rtos tasks:



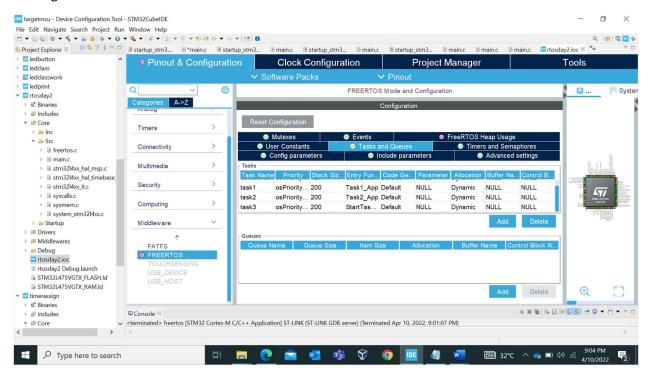


Code for timer interrupt:

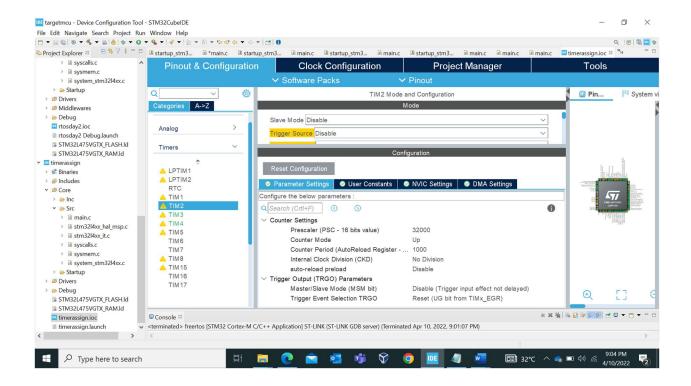
```
void HAL_TIM_PeriodElapsedCallback(TIM_HandleTypeDef *htim)
      if(htim->Instance==TIM2){
             HAL_GPIO_WritePin(led1_GPIO_Port, led1_Pin, GPIO_PIN_SET);
                           HAL Delay(1000);
                           HAL_GPIO_WritePin(led1_GPIO_Port,
led1_Pin, GPIO_PIN_RESET);
                           HAL_Delay(1000);
      }
      if(htim->Instance==TIM3){
             HAL_GPIO_WritePin(led2_GPIO_Port, led2_Pin, GPIO_PIN_SET);
                           HAL_Delay(1000);
                           HAL_GPIO_WritePin(led2_GPIO_Port,
led2_Pin, GPIO_PIN_RESET);
                           HAL_Delay(1000);
      }
      if(htim->Instance==TIM4){
             HAL_GPIO_WritePin(led3_GPIO_Port, led3_Pin,GPIO_PIN_SET);
                           HAL_Delay(1000);
                           HAL_GPIO_WritePin(led3_GPIO_Port,
led3_Pin, GPIO_PIN_RESET);
                           HAL Delay(1000);
      }
```

```
else{
    __NOP();
}
```

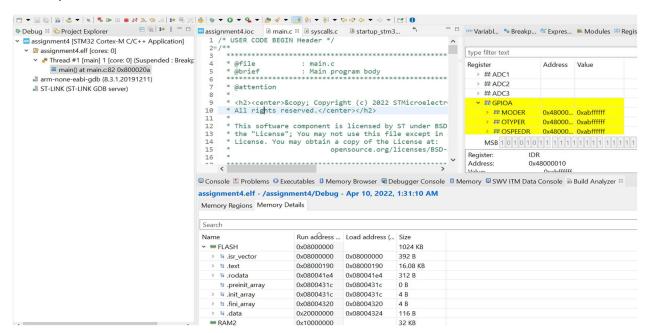
# Configuration for RTOS:



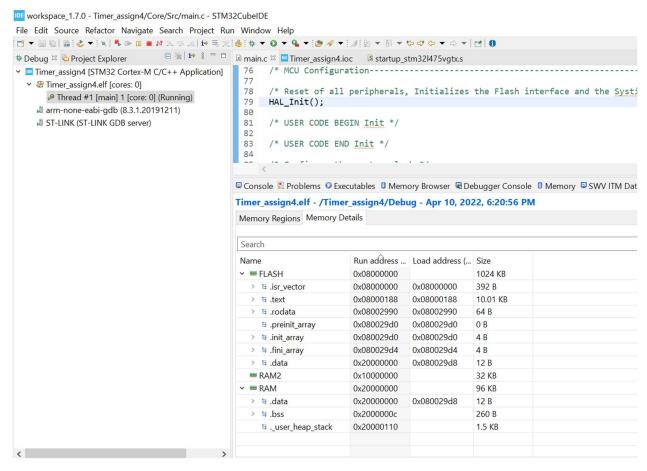
Configuration for timers:



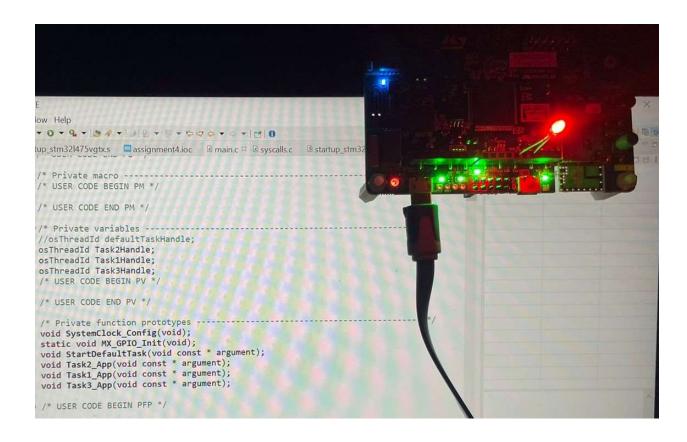
### Memory related information for rtos tasks:



Memory related information for timer interrupt:



### OUTPUT:



## Output

https://drive.google.com/file/d/1mrR\_Ec9A8F2b91qZhReLAtWi06HWeBTk/view?usp=sharing