


```
osSemaphoreId_t myBinarySem01Handle;
```

- `osSemaphoreId_t` semaphore

```
const osSemaphoreAttr_t myBinarySem01_attributes = {  
    .name = "myBinarySem01"  
};  
myBinarySem01Handle = osSemaphoreNew(1, 0, &myBinarySem01_attributes);
```

? ? ? ? ? ? ? ? Button Trigger

? ? ? ? ?

- `osSemaphoreAcquire` semaphore block
- `osSemaphoreRelease` (EXTI) `osSemaphoreRelease()`

EXTI ? ? ? ? ?

```
void HAL_GPIO_EXTI_Callback(uint16_t GPIO_Pin)  
{  
    if(GPIO_Pin == GPIO_PIN_13)  
    {  
        osSemaphoreRelease(myBinarySem01Handle);  
    }  
}
```

? ? ? ? ? ? ? ?

```
void StartDefaultTask(void *argument)  
{  
    for(;;)  
    {  
        if(osSemaphoreAcquire(myBinarySem01Handle, osWaitForever) == osOK)  
        {  
            HAL_GPIO_TogglePin(GPIOA, GPIO_PIN_5);  
        }  
    }  
}
```

