

GPIO using RTOS:

1: The below output is of two task running with same priority :

```
Sensor Task
Alarm Task
Sensor Task
Sensor Task
Alarm Task
Sensor Task
Sensor Task
Alarm Task
Sensor Task
Sensor Task
Alarm Task
Sensor Task
Sensor Task
Alarm Task
Sensor Task
Sensor Task
```

2: The 2nd image which show the Stack Mark:

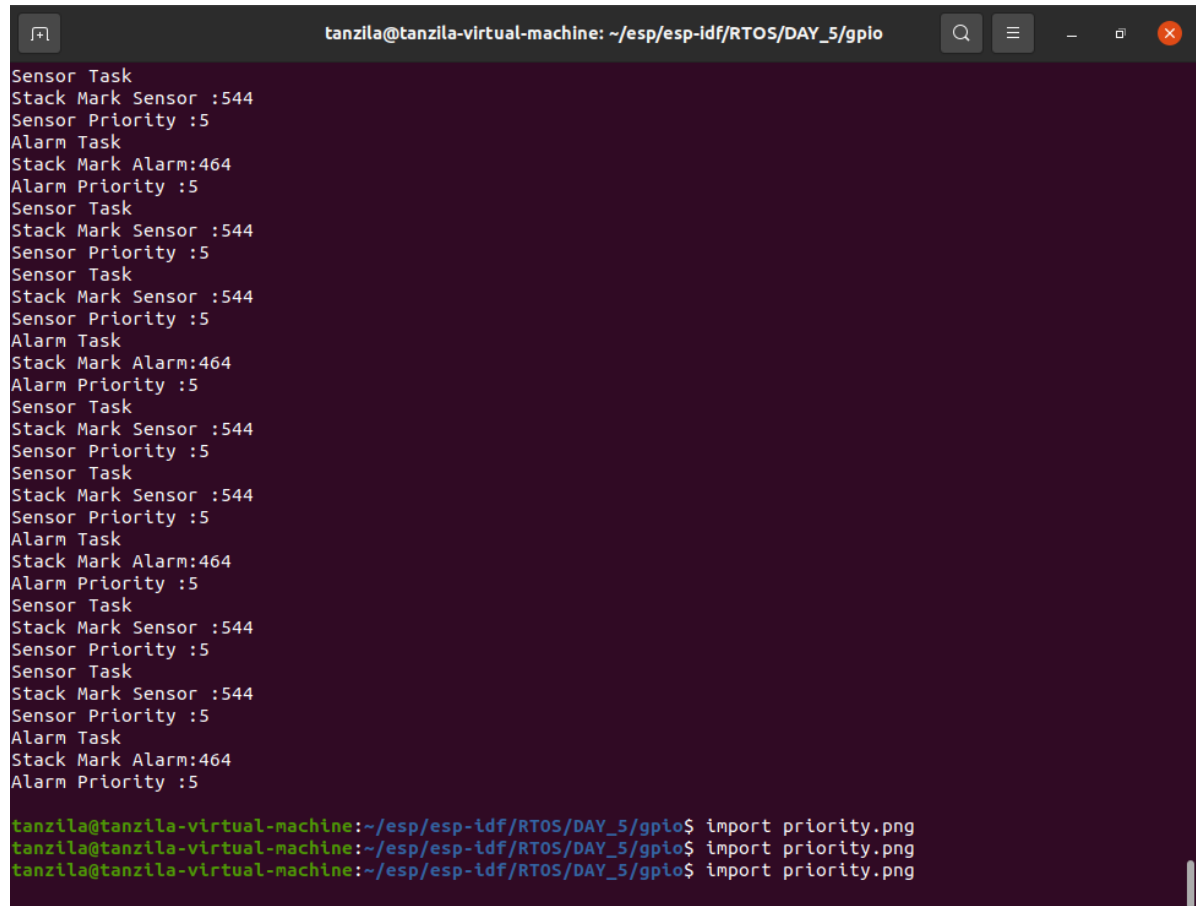
API used:

```
uxTaskGetStackHighWaterMark(TaskHandle_t xTask);
```

```
Stack Mark Sesor :96
Sensor Task
Stack Mark Sesor :96
Alarm Task
Stack Mark ALARM :96
Sensor Task
Stack Mark Sesor :96
Sensor Task
Stack Mark Sesor :96
Alarm Task
Stack Mark ALARM :96
Sensor Task
Stack Mark Sesor :96
Sensor Task
Stack Mark Sesor :96
Alarm Task
Stack Mark ALARM :96
Sensor Task
Stack Mark Sesor :96
Sensor Task
Stack Mark Sesor :96
Alarm Task
Stack Mark ALARM :96
Sensor Task
Stack Mark Sesor :96
Sensor Task
```

3: The 3rd image show priority of both task:

```
uxTaskPriorityGet( TaskHandle_t xTask );
```



```
tanzila@tanzila-virtual-machine: ~/esp/esp-idf/RTOS/DAY_5/gpio
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Alarm Task
Stack Mark Alarm:464
Alarm Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Alarm Task
Stack Mark Alarm:464
Alarm Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Alarm Task
Stack Mark Alarm:464
Alarm Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Alarm Task
Stack Mark Alarm:464
Alarm Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Sensor Task
Stack Mark Sensor :544
Sensor Priority :5
Alarm Task
Stack Mark Alarm:464
Alarm Priority :5

tanzila@tanzila-virtual-machine:~/esp/esp-idf/RTOS/DAY_5/gpio$ import priority.png
tanzila@tanzila-virtual-machine:~/esp/esp-idf/RTOS/DAY_5/gpio$ import priority.png
tanzila@tanzila-virtual-machine:~/esp/esp-idf/RTOS/DAY_5/gpio$ import priority.png
```