Assignment 8

```
Create a RTOS Application
Create Task1 and Task2 with their proper TaskHandles.
Pass the following parameters:
Task 1 (handle)----Pass to ----> Task1 as parameter
Task 2 (handle)----Pass to ----> Task2 as parameter
Inside Task1:
Suspend Task 2 using its handle using proper API.
Blink LED1 and LED2 at every 500ms for 10 times, after that Resume Task 2 using proper API.
Inside Task2:
Blink LED3 and LED4 at every 100ms infinite times.
```

The task functions are defined as below:

```
void Task1(void *T2)
     TaskHandle t *xHandle2 = (TaskHandle t *)T2;
     vTaskSuspend(*xHandle2);
     uint16 t count = 10;
     for(;;)
     {
          HAL GPIO TogglePin(GPIOD, GPIO PIN 12 | GPIO PIN 13);
          HAL Delay(500);
          if(count == 1)
               vTaskResume(*xHandle2);
          count--;
          vTaskDelete(NULL);
     }
}
void Task2(void *T1)
     for(;;)
     {
          HAL GPIO TogglePin(GPIOD, GPIO PIN_14 | GPIO_PIN_15);
          HAL Delay(100);
     }
}
```

The task 1 function is defined such that the led 1 and 2 toggle every 500ms, 10 times.

While, task 2 function is defined so that the led 3 and 4 toggle every 100ms infinite times.

vTaskSuspend():

Places a task into the Suspended state. A task that is in the Suspended state will never be selected to enter the Running state.

The only way of removing a task from the Suspended state is to make it the subject of a call to vTaskResume().

vTaskResume():

Transition a task from the Suspended state to the Ready state. The task must have previously been placed into the Suspended state using a call to vTaskSuspend().

The trace of the code is shown below:

