Assignment 1

I used Eclipse IDE as described in <u>instruction file</u> you can use visual studio code also by editing main.c and adding lines that I will explain below :

The required exercise :

Create Tasks

> Task1 name="Task1"Task2 name="Task2"
> Task1 stack size = 1000
> Task2 stack size = 100
> Task1 priority = 3
> Task2 priority = 1

Solution:

My edits starts at line 131 in **main.c before main function**

```c
void Task1(){
    while(1){
        printf("This is task 1\n");
        fflush(stdout);
        vTaskDelay(100);
    }
}void Task2(){
    while(1){
        printf("This is task 2\n");
        fflush(stdout);
        vTaskDelay(500);
    }
}
```

And also at line 144 in **main.c the main function**

```c
  int main( void )
{
    /* This demo uses heap_5.c, so start by defining some heap regions.  heap_5
    is only used for test and example reasons.  Heap_4 is more appropriate.  See
    http://www.freertos.org/a00111.html for an explanation. */
    prvInitialiseHeap();
```

```c
        /* Initialise the trace recorder.  Use of the trace recorder is optional.
        See http://www.FreeRTOS.org/trace for more information. */
        vTraceEnable( TRC_START );
        xTaskHandle HT1;
        xTaskHandle HT2;
        //xTaskCreate(HelloTask,"HELLO TASK",configMINIMAL_STACK_SIZE,NULL,1,&HT);
        xTaskCreate(Task1,"TASK1",configMINIMAL_STACK_SIZE,NULL,3,&HT1);
        xTaskCreate(Task2,"TASK2",configMINIMAL_STACK_SIZE,NULL,1,&HT2);
        /* The mainCREATE_SIMPLE_BLINKY_DEMO_ONLY setting is described at the top
        of this file. */
        vTaskStartScheduler();
        while(1);
        return 0;
}
```