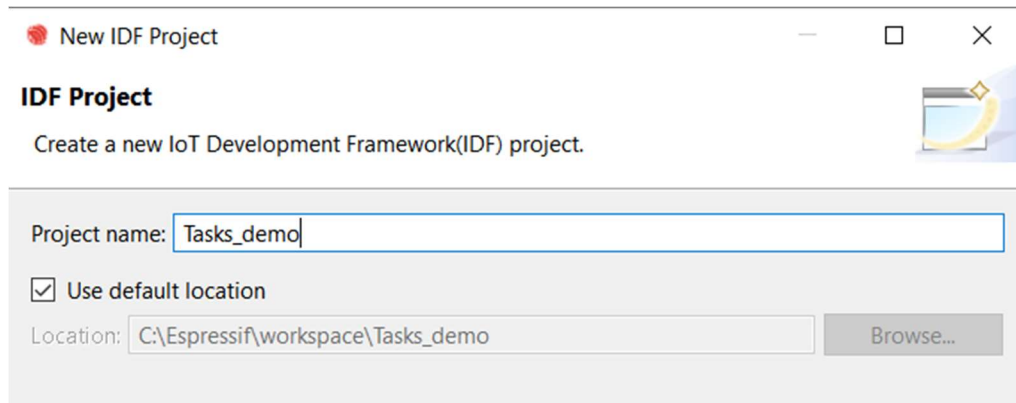


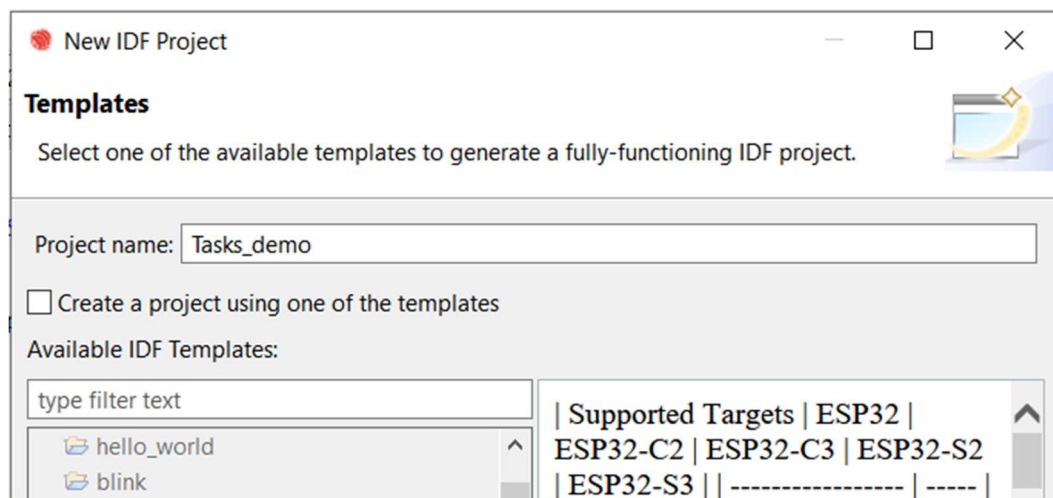
## FreeRTOS tasks on the ESP32

### Create ESP-IDF project in Eclipse

- Create a new Espressif IDF Project: menu *File -> New -> Espressif IDF Project*.
- Enter a project name, click *Next*



- On the next window leave the *Create a project using one of the templates* unchecked and click on finish. New project with simple application code example will be created.



- Change program code in the *main.c* file

```
#include <stdio.h>

#include "freertos/FreeRTOS.h"
#include "freertos/task.h"

void vTask1function(void* pvParameters)
{
    uint16_t count = 0;
    for(;;)
    {
        count++;
        printf("This is Task 1\n");
    }
}
```

```

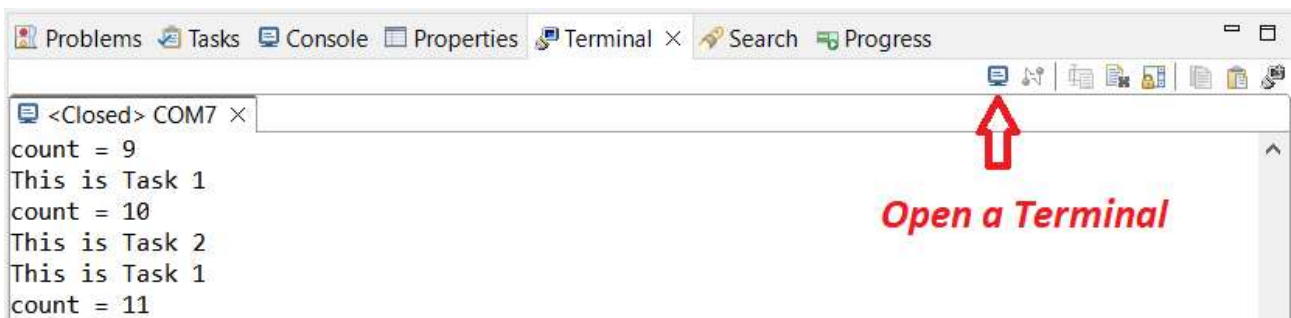
        printf("count = %d\n", count);
        vTaskDelay(1000/ portTICK_PERIOD_MS);
    }
}

void vTask2function(void* pvParameters)
{
    for(;;)
    {
        printf("This is Task 2\n");
        vTaskDelay(2000/ portTICK_PERIOD_MS);
    }
}

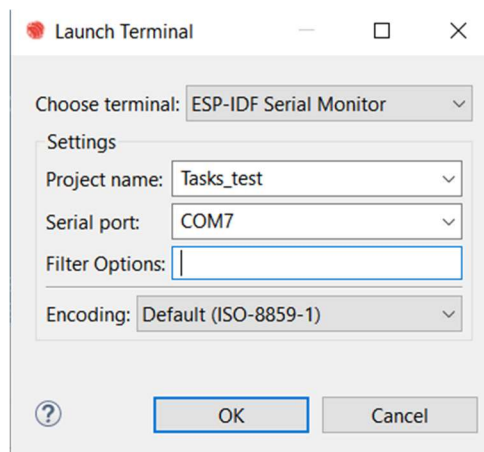
void app_main(void)
{
    xTaskCreate(vTask1function, "TASK 1", 1024*2, NULL, 1, NULL );
    xTaskCreate(vTask2function, "TASK 2", 1024*2, NULL, 1, NULL );
}

```

- Build the project and upload to the ESP32
- Open terminal window *Window -> Show View -> Terminal* . In the opened window, select “Open a Terminal” icon.



- In the dialog window select terminal type, project and port.



P.s. MCU will restart and execute program from the beginning.

Or use another 3<sup>rd</sup> party terminal client, e.g. Hercules. In this case terminal only shows messages from serial port.