Complete the “yellow” tabs and delate the phrases in italics.  
You can duplicate the table “Project”, if more than one project are due for the homework.

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| --- | --- | --- | --- |
| Team name: | A1 | | |
| Homework number: | *01* | | |
| Due date: | *25/09/2022* | | |
|  |  |  |  |
| Contribution | NO | Partial | Full |
| 1 *Donato Carlo Giorgio* |  |  | x |
| 2 Francesco Lenzi |  |  | x |
| 3 Gianmarco Lodari |  |  | *x* |
| 4 Alessio Lanzini |  |  | *x* |
| 5 Lenn Chiapparo |  |  | *x* |
| Notes:  *Complete in necessary* | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Project name | Prepare the basics for the project “Play a song” (1.1) | | |
| Not done | Partially done  (major problems) | Partially done  (minor problems) | Successfully completed |
|  |  |  | *x* |
| Explanation: As seen in class, after reading the documentation, we understood that PIN8 is the one connected to the sound sensor, so we configured an interrupt accordingly, which toggles the led. | | | |
| Professor comments:  Did you observed any bouncing problems?  Very good! | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Project name | Prepare the basics for the project “Play a song” (1.2) | | |
| Not done | Partially done  (major problems) | Partially done  (minor problems) | Successfully completed |
|  |  |  | *x* |
| Explanation: We connected the Pin associated to LD2 (Pin 5) to TIM2\_CH1. Then set channel 1 of TIM2 to PWM Generation mode with the following parameters PSC = 0, AAR = 84000000 and CCR = 42000000 in order to obtain a square wave with 1 second period and 50% DC. The PWM is started by the command HAL\_TIM\_PWM\_START. As a result LD2 toggles its states every 0,5 seconds. | | | |
| Professor comments:  Very good!  Excelent job also with the theoretical questions | | | |