

LAB 11B

OUTPUT COMPARE

OBJECTIVES:

- To program the STM32F10x timer.
- To generate a square wave using the STM32F10x timer and play music.

REFERENCE:

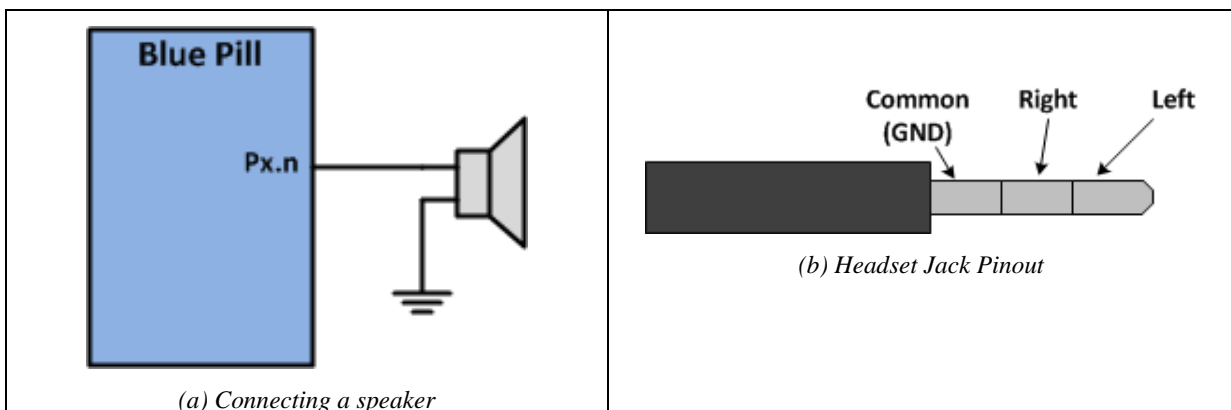
- Mazidi & Naimi “The STM32F103 Arm Microcontroller and Embedded Systems,” Chapter 11

MATERIALS:

- Keil IDE
- Blue pill or any other STM32F10x trainer board
- ST-Link V2
- Speaker (optional)

ACTIVITY 1

- Using toggle mode, generate a 500 Hz square wave.
- Examine the wave using the oscilloscope.
- Connect a small speaker (or a headset) to the pin.



ACTIVITY 2

Modify the Activity 1 to generate a 800 Hz square wave frequency.