**Outline**

Write a program to blink the on-board LED based on user commands from the serial monitor. Parse commands to turn on and off the LED as well as blink it a specified number of times.

**Objectives**

**Prerequisites**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Prerequisite Module(s)** | **Level** | **Student Initial** | **Teacher Initial** | **Date** |
| None |  |  |  |  |

**Materials**

* Arduino Development Environment (IDE)
* Arduino proto board

**Level 0: Sample Program**

1. Implement and run the sample program defined in Appendix A..

DONE

1. Observe the number times the LED blinked. DONE

DONE

1. Explain why the LED only blinked 4 times.

The LED blinked 4 times because, the (int times=) was set to 5 not 4.

**Level 1: Variable Scope**

**3.** Int Times= Value states that the number of times to blink the LED equals to the blink value(causes the Int Times to change into the value given).

**4. a.** The first definition of integer applies before the void setup and the second definition applies in the void loop

**b.** There is no overlap because there is no integer being applied at the same time in each void.