PARAMETER SELECTION GUIDE FOR LED EXPERIMENTS

LED\_1.1:

1. ARDUINO\_SETUP block: Right-click and open the block properties or double click on this block. In the resulting dialog window, enter the com port number of your

system.(card 1 on com 5 here)

2. TIME\_SAMPLE block: Following the procedure mentioned above, set duration(s) as 10 and sampling period(s) as 0.1. Leave other parameters set to their default values.

3. CONSTANT block: Set constant value as 1(to turn LED ON).

4. DIGITAL\_WRITE block: Select digital pin 9 for blue LED and arduino card number 1.

LED\_1.2:

1. ARDUINO\_SETUP block: Enter the com port number of your system.

2. TIME\_SAMPLE block: Set duration(s) as 10 and sampling period(s) as 0.1. Leave other parameters set to their default values.

3. STEP\_FUNCTION: Set step time as 2(to keep LED ON for 2 sec), initial value 1 and final value 0.

4. DIGITAL\_WRITE: Select digital pin 9 for blue LED and arduino card number 1.

LED\_1.3:

1. ARDUINO\_SETUP block: Enter the com port number of your system.

2. TIME\_SAMPLE block: Set duration(s) as 10 and sampling period(s) as 0.1. Leave other parameters set to their default values.

3. STEP\_FUNCTION:

For block 1: Set step time as 5(to keep red LED ON for 5 sec), initial value 1 and final value 0.

For block 2: Set step time as 8(to keep green LED ON for 5 sec and further for 3 more sec till the red LED turns OFF), initial value 1 and final value 0.

4. DIGITAL\_WRITE: Select digital pin 9 for blue LED for 1st block and 11 for red LED for 2nd block and arduino card number 1.

LED\_1.4:

1. ARDUINO\_SETUP block: Enter the com port number of your system.

2. TIME\_SAMPLE block: Set duration(s) as 10 and sampling period(s) as 0.1. Leave other parameters set to their default values.

3. PULSE\_SC: Set pulse width(%) to 50, period(s) to 2 and amplitude to 1. Leave other parameters set at their default values.

4. DIGITAL\_WRITE: Select digital pin 10 for green LED and arduino card number 1