**TEAM-8**

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**README**

**INSTRUCTIONS FOR TARGET**

1. Before running the make file, change the mouse event number in "**main.c**" on line number -**#define EVENT\_FILE\_NAME "/dev/input/event2"** according to the event number of the mouse connected to the board which you can check in **/dev/inputs** on the target terminal

2. Run the "**makefile**" through "**make TEST\_TARGET=Galileo2**" command and it will create "**RGBLed.ko**" and the "**main**" with other files

3. Configure your board by assigning it a static ip between 192.168.1.0 to 192.168.1.255

4. Everytime you disconnect and connect the ethernet cable from your board, run the following command at your "**root@quark#:**" terminal

**ifconfig enp0s20f6 *(your assigned ip)* netmask 255.255.0.0 up**

5. After you have configured the board you need to copy the files " **RGBLed.ko** " and the "**main**" to the home directory on board through command

**scp *(path of the files to be copied)* root@*(your assigned ip)*:/home**

6. To install the module, run “**insmod RGBLed.ko**”

7. Run the main file thorugh **./main** command

8. Enter the input values when it prompts you to enter the integer values of PWM, Red Led pin number, Green Led pin number and Blue Led pin number in the order mentioned.

9. You can set the intensity of the LEDs by entering different values of PWM in the range of **0 to 100**.

10. The LEDs will blink for the 7 steps – **{R, G, B, RG, RB, GB, RGB}** at the intensity set through the PWM.

11. To remove the module run "**rmmod RGBLed**"

**INSTRUCTIONS FOR BASH SHELL SCRIPT**

1. After you have configured the board you need to copy the file "**RGBLed.sh**" to the home directory on board through command

**scp *(path of the files to be copied)* root@*(your assigned ip)*:/home**

2. Run the bash script thorugh **./RGBLed.sh** command.

3. Enter the input values when it prompts you to enter the integer values of PWM, Red Led pin number, Green Led pin number and Blue Led pin number in the order mentioned.

4. You can set the intensity of the LEDs by entering different values of PWM in the range of **0 to 100**.

5. The LEDs will blink for the 7 steps – **{R, G, B, RG, RB, GB, RGB}** at the intensity set through the PWM.