



Experiment Number 2

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Branch :: CSE - IoT Sec/Grp :: 1/A

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Subject :: WSN Lab CODE :: CSD-331

1. Aim:

To control 3 colored RGB LED with Arduino Uno.

2. Task:

Find the k-th largest element in an unsorted array.

3. Requirements:

- 1. Arduino Uno
- 2. Breadboard
- 3. onnecting wires
- 4. RGB LED
- 5. Resistors (230 ohm)





4. Steps / Source Code:

- 1. Take an Arduino Uno and a breadboard.
- 2. Connect 11,12,13 pin numbers of Arduino board to the connection slots on breadboard and the ground pin to the pin in the negatively charged slot of the breadboard.
- 3. Connect three 230-ohm resistors on the breadboard.
- 4. Connect the RGB LED on the breadboard and then write the code for simulation.

```
#define LEDR 13
#define LEDG 11
#define LEDB 12
void setup()
    pinMode(LEDR, OUTPUT);
    pinMode(LEDG, OUTPUT);
    pinMode(LEDB, OUTPUT);
}
int r = 0;
int g = 0;
int b = 0;
void loop()
    r = random(0, 255);
    g = random(0, 255);
    b = random(0, 255);
    analogWrite(LEDR, r);
    analogWrite(LEDG, g);
    analogWrite(LEDB, b);
    delay(1000);
}
```





5. Observations:















