Program no____16_____

Program Title display system to print the RED,BLUE and Green colors (RGB Led and LCD).
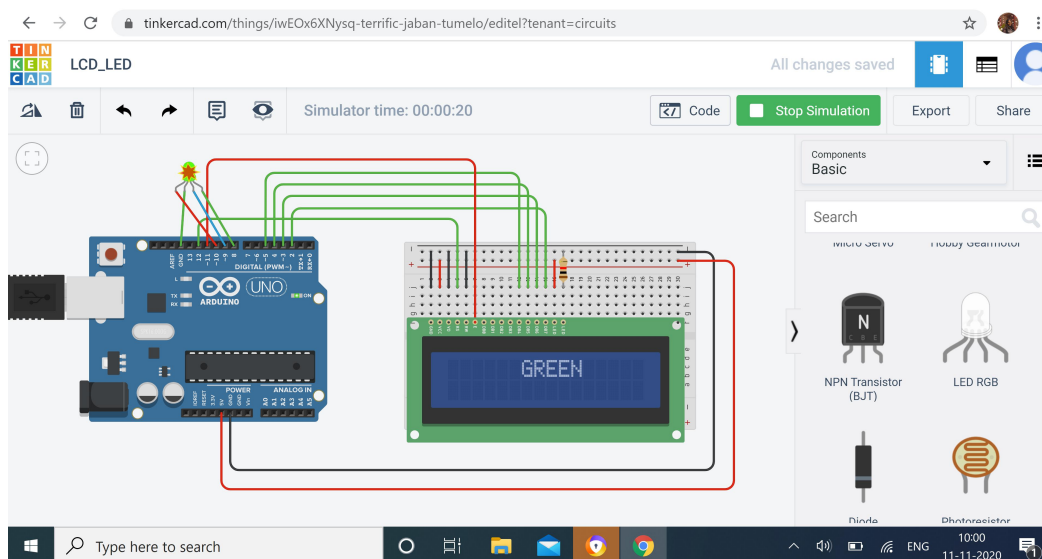
Aim :

To display the color of the light .

Hardware Required

- Arduino Board
- LCD
- RGB LED

Circuit Diagram:

CODE:

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Experiment 16 ⟶ LCD

```
#include < liquidCrystal.h>
LiquidCrystal  lcd (12, 11, 5, 4, 3, 2);

  int red =10;
  int green = 8;
  int blue = 9;
void Setup()
{
  pinMode (red, OUTPUT);
  pinMode (green, OUTPUT);
  pinMode (blue, OUTPUT);
}
void loop () {
   lcd. setCursor (0,0);

  RGB_ color (255, 0, 0);
  lcd. print ("RED");
  delay (1000);
  lcd. clear ();

  RGB  color (0, 255, 0);
  lcd.print ("GREEN");
  delay (1000);
  lcd. clear ();
```

```
RGB_colour (0, 0, 255);
lcd.print ("BLUE");
delay (1000);
lcd.clear();

RGB_color (255, 255, 255);
lcd.print ("WHITE");
delay(1000);
lcd.clear();

void  RGB_color (int red-value, int green, value,
                   int blue value).
    {
        AnalogWrite (red, red-value);
        analogWrite (green, green-value);
        analog Write (blue, blue-value);
    }  .
```

Observation /Output:

Displays RED,BLUE and Green colors (RGB) Led on the LCD.