

Exp. 14

Investigation

Aim

Design a display system to print the RED, BLUE, and GREEN colors (RGB LED and LED)

Hardware Required

Arduino Board, Breadboard, Potentiometer, MicroServo

Code

```
#include <Servo.h>
```

```
Servo myservo;
```

```
int pos = 0;
```

```
int sensorPin = A0;
```

```
int sensorValue = 0;
```

```
void setup()
```

```
{
```

```
  myservo.attach(3);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop()
```

```
{
```

```
  sensorValue = analogRead(sensorPin);
```

```
  Serial.println(sensorValue);
```

```
  if (sensorValue > 500)
```

```
{
```

```
    for (pos = 0; pos <= 180; pos += 1)
```

```
    {
```

```
      myservo.write(pos);
```

//_

```
    delay(15);  
  }  
  for (pos = 180; pos >= 0; pos -= 1)  
  {  
    myservo.write(pos);  
    delay(15);  
  }  
  delay(1000);  
}
```