Assignment No: 7

Code:

```
int redPin = 11;

int greenPin = 10;

int bluePin = 9;


//uncomment this line if using a Common Anode LED

//#define COMMON_ANODE

void setup()

{

 pinMode(redPin, OUTPUT);

 pinMode(greenPin, OUTPUT);

 pinMode(bluePin, OUTPUT);

}

void loop()

{

 setColor(255, 0, 0);  // red

 delay(1000);

 setColor(0, 255, 0);  // green

 delay(1000);

 setColor(0, 0, 255);  // blue

 delay(1000);

 setColor(255, 255, 0);  // yellow

 delay(1000);

 setColor(80, 0, 80);  // purple

 delay(1000);

 setColor(0, 255, 255);  // aqua

 delay(1000);

}

void setColor(int red, int green, int blue)

{
```

```
#ifdef COMMON_ANODE

  red = 255 - red;

  green = 255 - green;

  blue = 255 - blue;

 #endif

 analogWrite(redPin, red);

 analogWrite(greenPin, green);

 analogWrite(bluePin, blue);

}
```

Output: