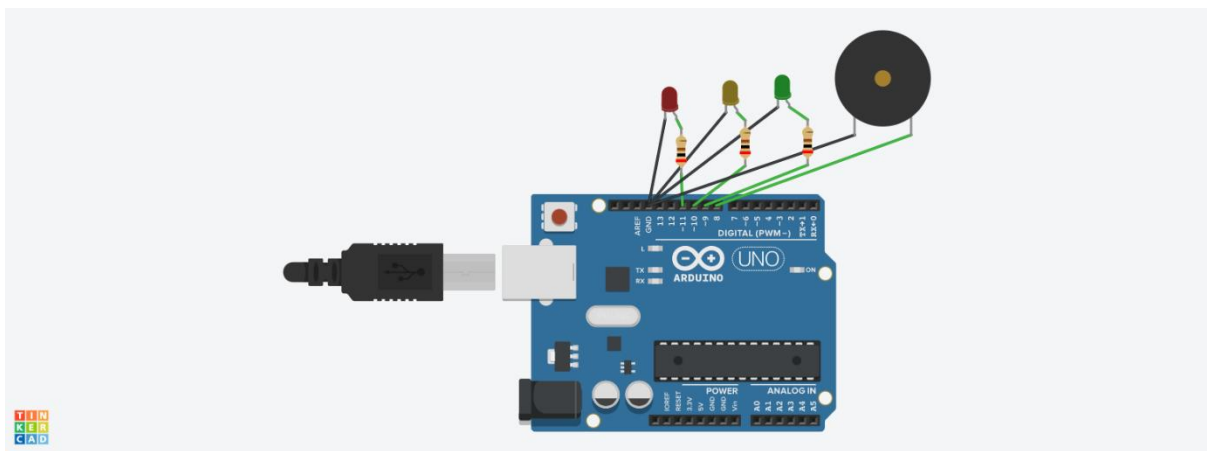


Lecture Assignment – 2

Aryaman Gautam

J001

1. A traffic signal has red which is on for 5 sec. In the last 2 sec we hear the buzzer with frequency of 440 Hz, followed by yellow light blinking 5 times which is on and off for 0.5 sec each followed by green which is on for 5 sec. At the last 2 sec of green, we hear a buzzer of 440 Hz frequency.

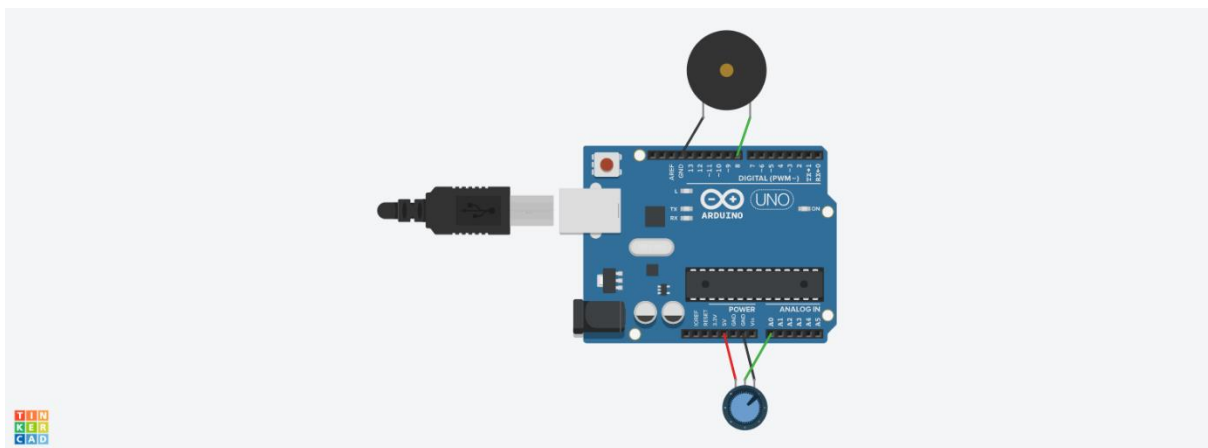


```
void setup()
{
  pinMode(11, OUTPUT); //red
  pinMode(10, OUTPUT); //yellow
  pinMode(9, OUTPUT); //green
  pinMode(8, OUTPUT); //buzzer
}
```

```
void loop()
{
  digitalWrite(11, HIGH);
  delay(3000);
  tone(8, 440);
```

```
delay(2000);  
noTone(8);  
digitalWrite(11,LOW);  
for (int i=0; i<5; i++){  
    digitalWrite(10,HIGH);  
    delay(500);  
    digitalWrite(10,LOW);  
    delay(500);  
}  
digitalWrite(9,HIGH);  
delay(3000);  
tone(8,440);  
delay(2000);  
noTone(8);  
digitalWrite(9,LOW);  
}
```

2. Control the buzzer tone using Potentiometer.



```
void setup()
```

```
{
```

```
  pinMode(A0, INPUT);
```

```
  pinMode(8, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  int sensorValue = analogRead(A0);
```

```
  tone(8, sensorValue);
```

```
}
```