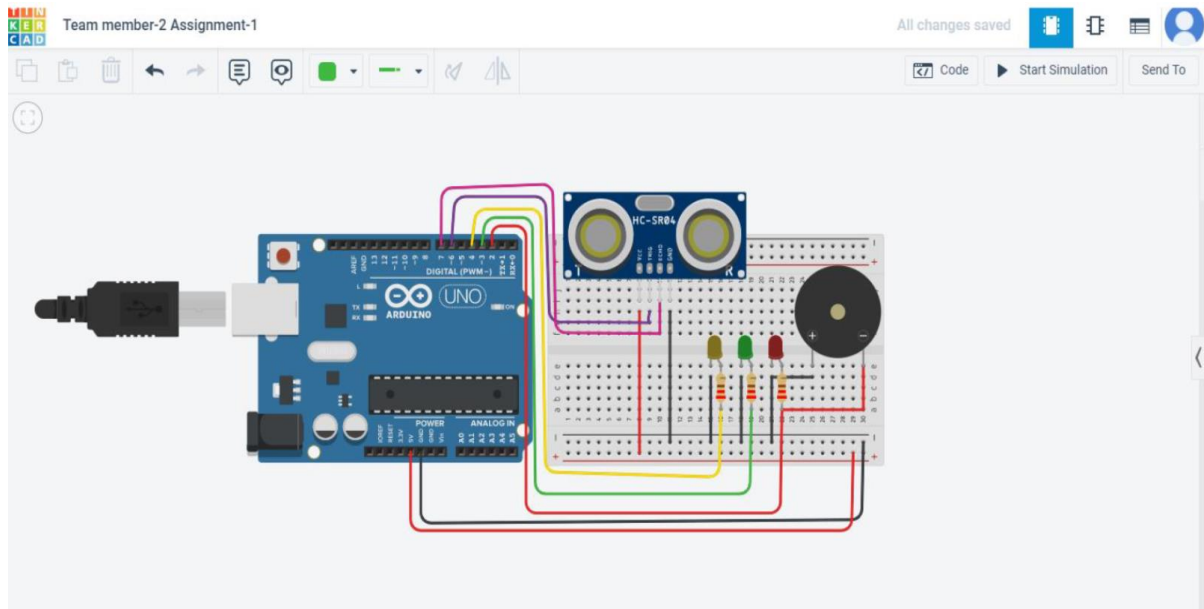


# ASSIGNMENT-1(NALAIYA THIRAN)

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REGISTER NUMBER: 611219106018

SCHEMATIC(CIRCUIT DIAGRAM)



CODE:-(PROGRAM)

```
int distance = 0;
```

```
int cm = 0;
```

```
long readUltrasonicDistance(int triggerPin, int echoPin)
```

```
{
```

```
pinMode(triggerPin,
```

```
OUTPUT);
```

```
// Clear the trigger digitalWrite(triggerPin, LOW);
```

```
delayMicroseconds(2);
```

```
digitalWrite(triggerPin, HIGH);
```

```
delayMicroseconds(10);
```

```
digitalWrite(triggerPin, LOW);
```

```
pinMode(echoPin, INPUT);
```

```

    return pulseIn(echoPin, HIGH);
}

void setup() { Serial.begin(9600);

    pinMode(2, OUTPUT);
    pinMode(3, OUTPUT);
    pinMode(4, OUTPUT);
}

void loop()
{
    distance = 330;
    cm = 0.01723 * readUltrasonicDistance(6, 7);
    Serial.print(cm);
    Serial.println("cm");
    if (cm > distance) { digitalWrite(2, LOW);
        digitalWrite(3, LOW);
        digitalWrite(4, LOW);
    }
    else
    { if (cm > 230)
        {
            digitalWrite(2, LOW);
            digitalWrite(3, LOW);
            digitalWrite(4, HIGH);
        }
    }
    Else
    {

```

```
if (cm > 100)
{
    digitalWrite(2, LOW);
    digitalWrite(3, HIGH);
    digitalWrite(4, LOW);
}
else
{
    if (cm > 1)
    {
        digitalWrite(2, HIGH);
        digitalWrite(3, LOW);
        digitalWrite(4, LOW);
    }
    else
    {
        digitalWrite(2, LOW);
        digitalWrite(3, LOW);
        digitalWrite(4, LOW);
    }
}
}
}
}
}
delay(100);
}
```