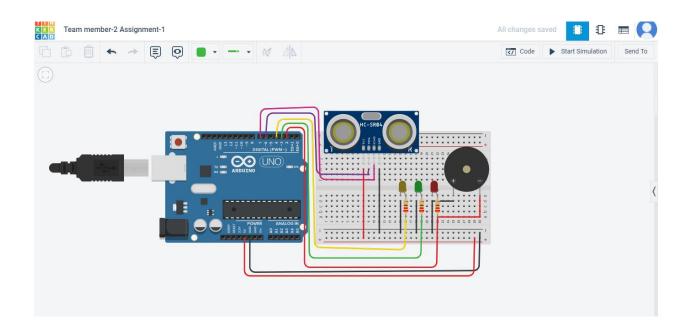
ASSIGNMENT-1(NALAIYA THIRAN)

TEAM MEMBER-2:R.RANJITH

REGISTER NUMBER:811519106113

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); }
```