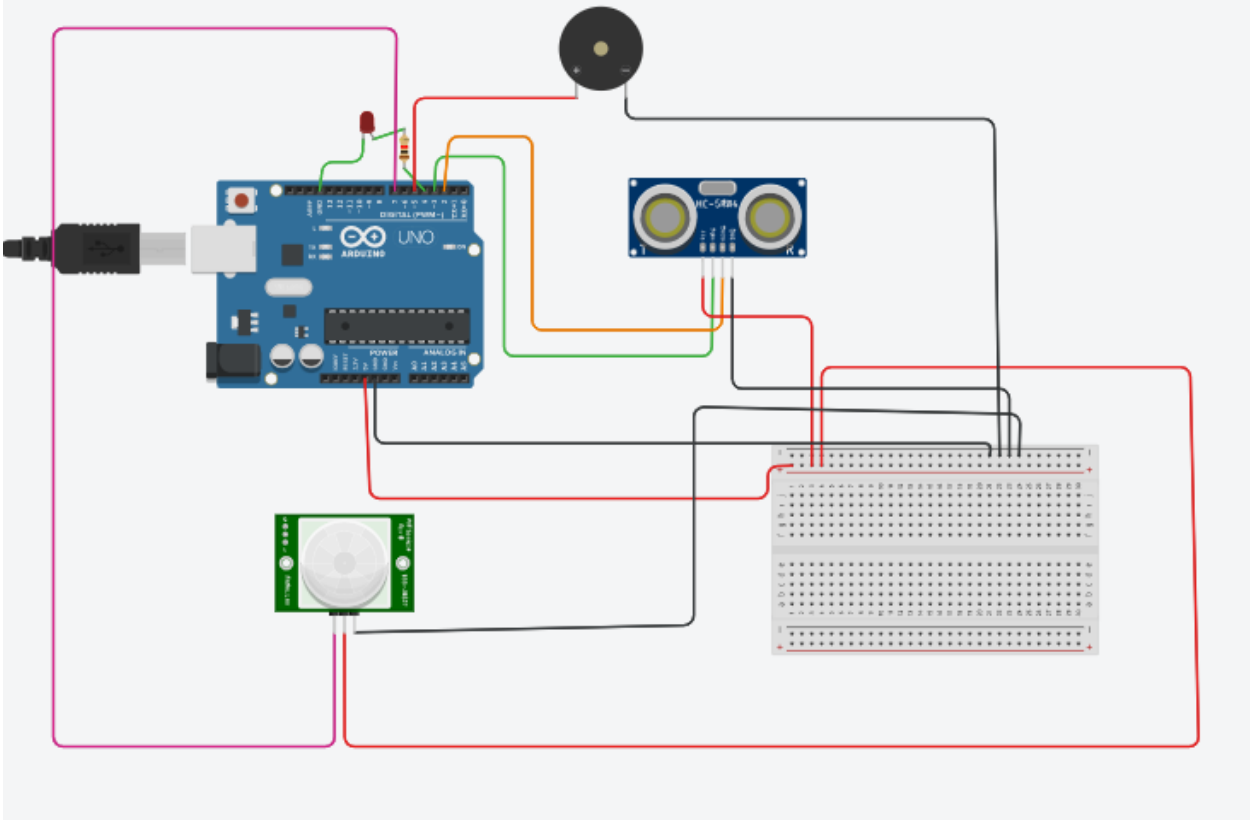
B1-1M3E ASSIGNMENT 1



SOURCE CODE:

```
// C++ code
//
int echo=2;
int trig=3;
int led=4;
int pir=7;
int buzzpin=5;
void setup ()
{
  pinMode(trig,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(7,INPUT);
  pinMode(5,OUTPUT);
```

```
  Serial.begin(9600);
}
void loop()
{
  digitalWrite(trig,LOW);
  delayMicroseconds(1000);
  digitalWrite(trig,HIGH);
  delayMicroseconds(1000);
  digitalWrite(trig,LOW);
  float duration = pulseIn(echo,HIGH);
  float dist = (duration*0.034)/2;
  Serial.print("distance is:");
  Serial.println(dist);

  int m=digitalRead(7);
  if(dist>=100 || m==1)
  {
    Serial.println("motion detected");
    digitalWrite(4,HIGH);
    digitalWrite(5,HIGH);
  }
  else
  {
    Serial.println("no motion detected");
    digitalWrite(4,LOW);
    digitalWrite(5,LOW);
  }
}
```