

ASSIGNMENT 1:

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CODE:

```
void setup()
{
  Serial.begin(9600);
  pinMode(7,INPUT);
  pinMode(6,OUTPUT);
}

void loop()
{
  int freq1=300,freq2=600;
  int n=digitalRead(7);
  Serial.print("motion");
  Serial.println(n);
  delay(1000);

  double temp=analogRead(A1);
  double n1=temp/1024;
  double vout=n1*5;
  double off=vout-0.5;
  double temperature=off*100;
  Serial.println(temperature);
  if(temperature>=60)
  {
    tone(6,freq2,1000);

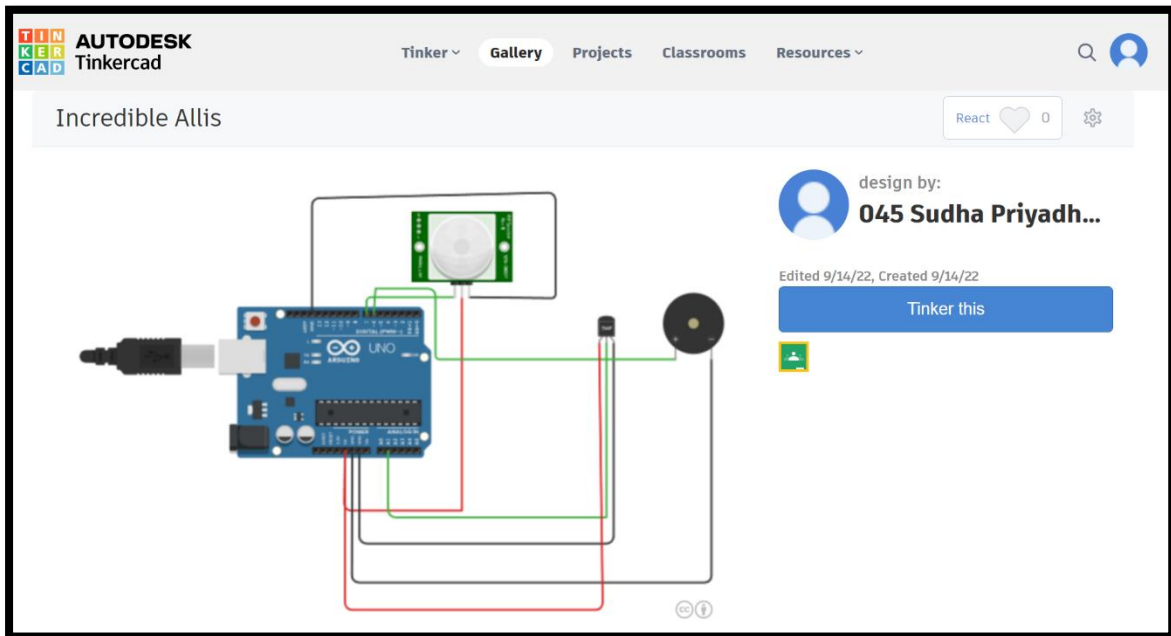
  }
  else if(n==1)
```

```

{
  tone(6,freq1,1000);
}

```

SIMULATION:



OUTPUT

