

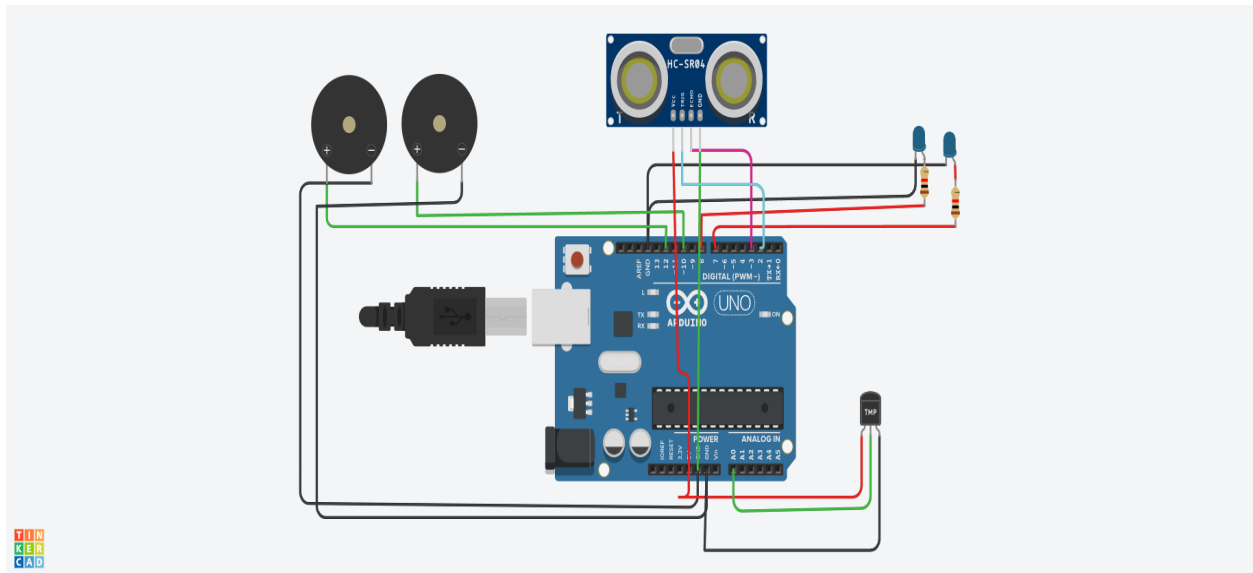
IBM – Nallaiya Thiran Project

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Assignment - 1

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```
void setup()
{
  Serial.begin(9600);
  pinMode(A2,INPUT);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT);
}

void loop()
{
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
  Serial.print("Temperature data: ");
  Serial.println(temperature);
  int motion=digitalRead(2);
  Serial.print("position is :");
  Serial.println(motion);
  if(motion==1){
    Serial.println("Motion detected");
    tone(12,1000);
    delay(2002);
  }
```

```
else{  
  Serial.println("No Motion");  
  noTone(12);  
  delay(200);  
}  
if(temperature >=60)  
{  
  tone(12,3000);  
  delay(200);  
}  
else  
{  
  noTone(12);  
  delay(200);  
}  
}
```