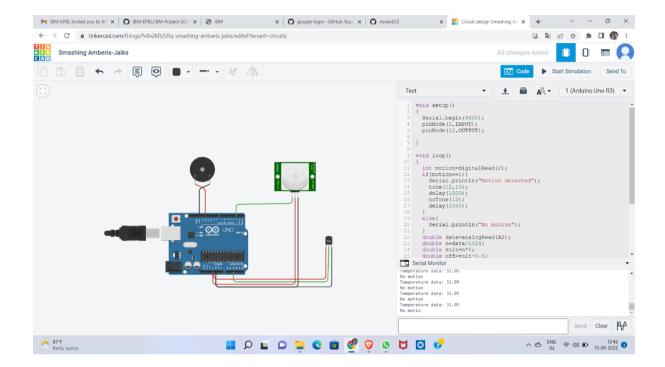
IBM ASSIGNMENT 1

Name: Aswin.S

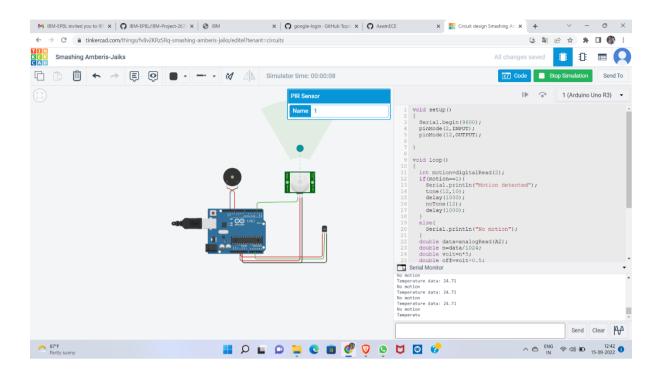
College: Sona College

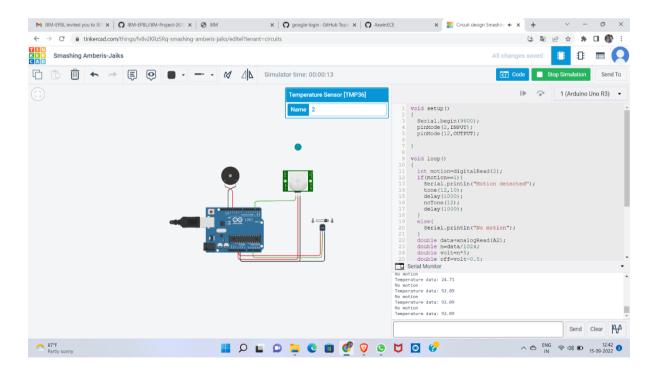
of Technology

Circuit connections:



Output:





Code:

```
void setup()
{
 Serial.begin(9600);
 pinMode(2,INPUT);
 pinMode(12,OUTPUT);
}
void loop()
{
 int motion=digitalRead(2);
 if(motion==1){
  Serial.println("Motion detected");
  tone(12,10);
  delay(1000);
  noTone(12);
  delay(1000);
 else{
  Serial.println("No motion");
 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);
if(temperature>60.00)
{
    tone(12,100);
    delay(500);
    noTone(12);
    delay(500);
}
```

Demo Link:

 $\frac{https://drive.google.com/file/d/1_4RdCfg7jRjyXX4OsBC9s0nNvIUUdcIU/vie}{w?usp=sharing}$