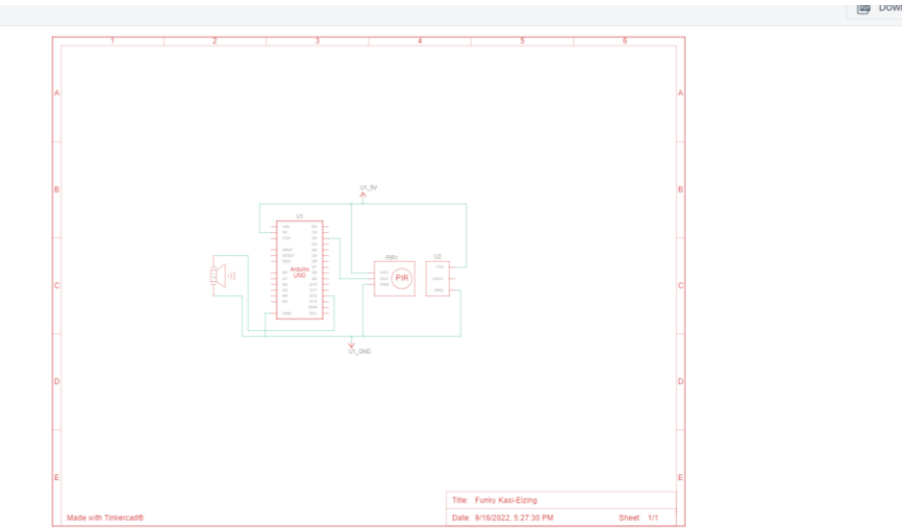
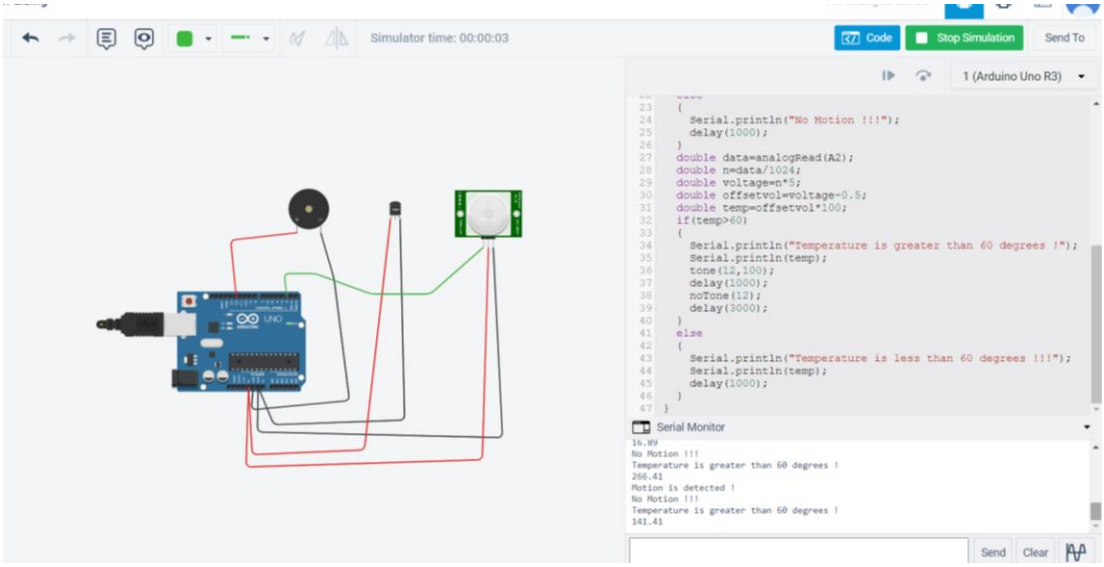
ARDUINO INTERFACING WITH TEMP SENSOR, PIR SENSOR AND PIEZO BUZZER

Schematic Circuit



Output



Project Code:

```
void setup()

{

 Serial.begin(9600);

 pinMode(2,INPUT);

 pinMode(12,OUTPUT);


}
```

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```
void loop()
{
 int motion=digitalRead(2);
 if(motion==1)
 {
  Serial.println("Motion is detected !");
  tone(12,10);
  delay(1000);
  noTone(12);
  delay(3000);
 }
 else
 {
  Serial.println("No Motion !!!");
  delay(1000);
 }
 double data=analogRead(A2);
 double n=data/1024;
 double voltage=n*5;
 double offsetvol=voltage-0.5;
 double temp=offsetvol*100;
 if(temp>60)
 {
  Serial.println("Temperature is greater than 60 degrees !");
  Serial.println(temp);
  tone(12,100);
  delay(1000);
  noTone(12);
  delay(3000);
 }
```

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```
  else
  {
        Serial.println("Temperature is less than 60 degrees !!!");
    Serial.println(temp);
    delay(1000);
  }
}
```