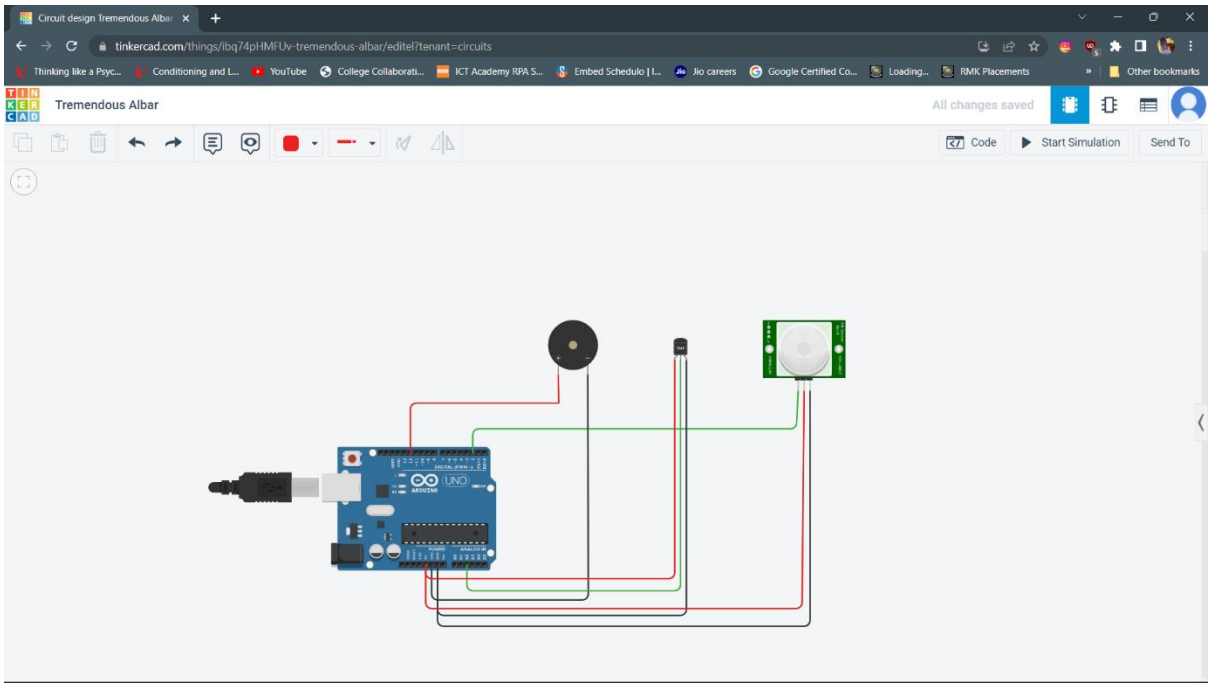
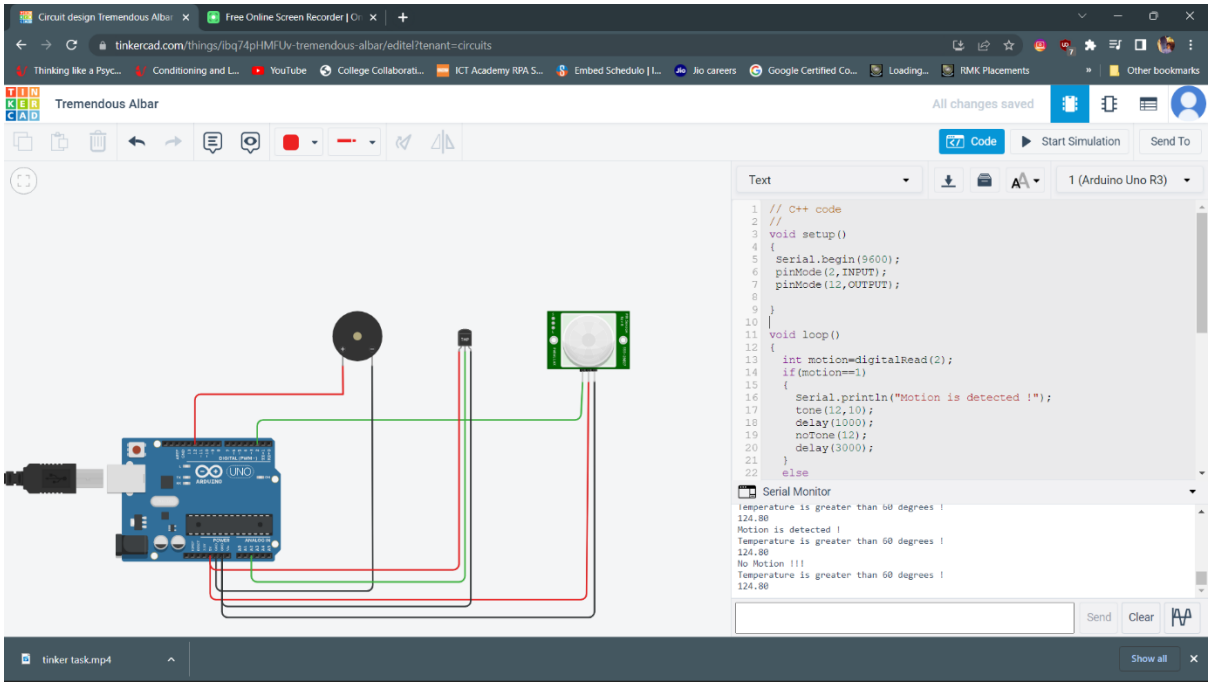
Arduino Interfacing Using Tinkercad

Schematic



Output



Code:

```
// C++ code
//
```

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

}

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

```
}
```