IBM ASSIGNMENT-1

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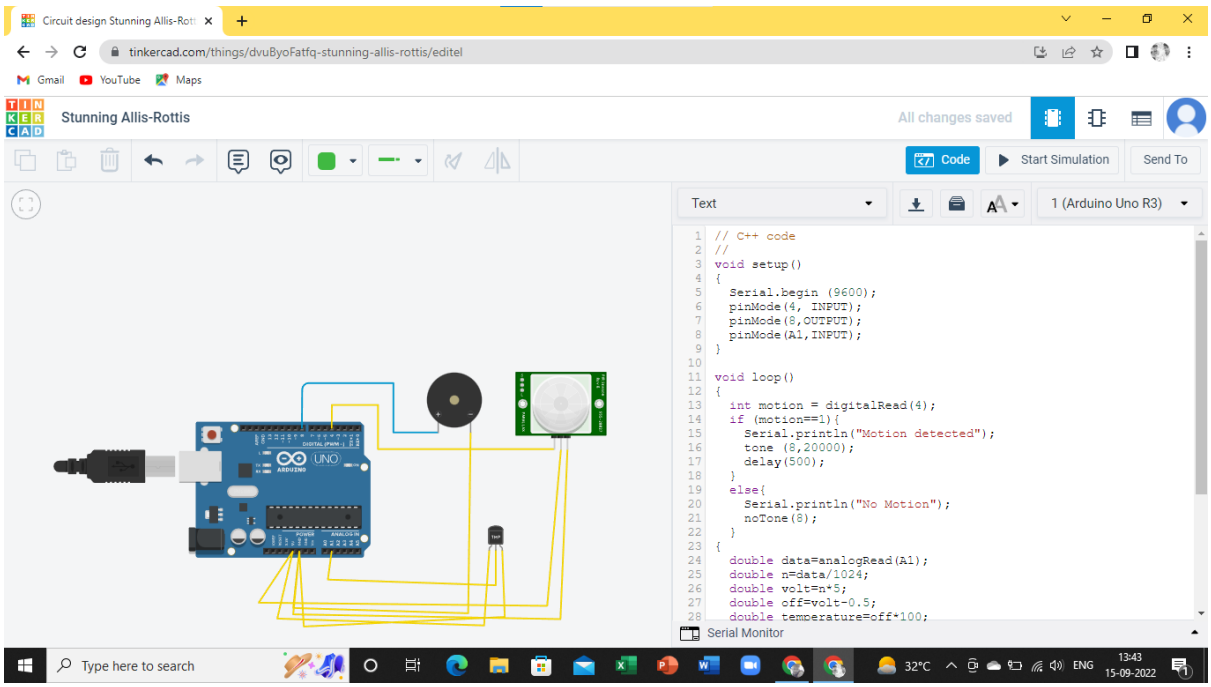
CIRCUIT LAYOUT :



Coding :

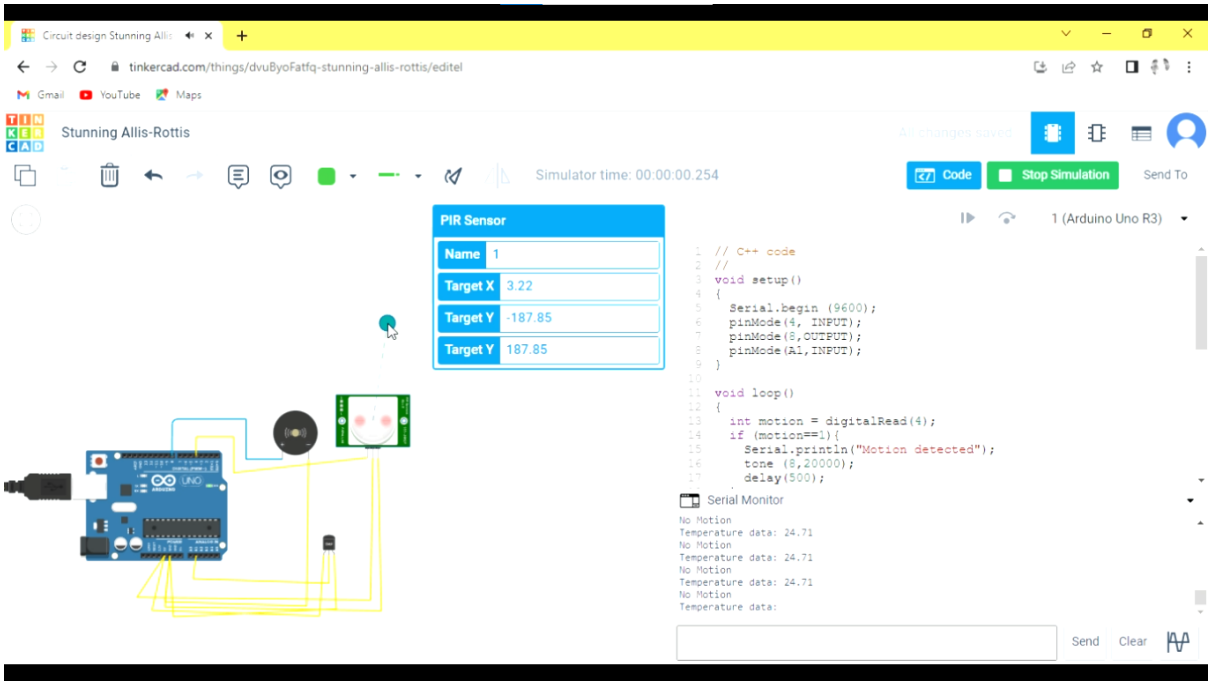
```
 void setup()
{
 Serial.begin (9600);
 pinMode(4, INPUT);
 pinMode(8,OUTPUT);
 pinMode(A1,INPUT);
}

void loop()
{
 int motion = digitalRead(4);
 if (motion==1){
  Serial.println("Motion detected");
  tone (8,20000);
  delay(500);
 }
 else{
  Serial.println("No Motion");
```

```
    noTone(8);
  }
{
  double data=analogRead(A1);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
  if (temperature>59.99){
  Serial.print("Temperature data:");
  Serial.println(temperature);
  tone(8,10000);
  delay(500);
  }
  else
    Serial.print("Temperature data: ");
    Serial.println(temperature);
    noTone(8);
  }
}
```

Output :

1).Passive Infrared Sensor :



2).Temperature Sensor :