# IBM ASSIGNMENT-1

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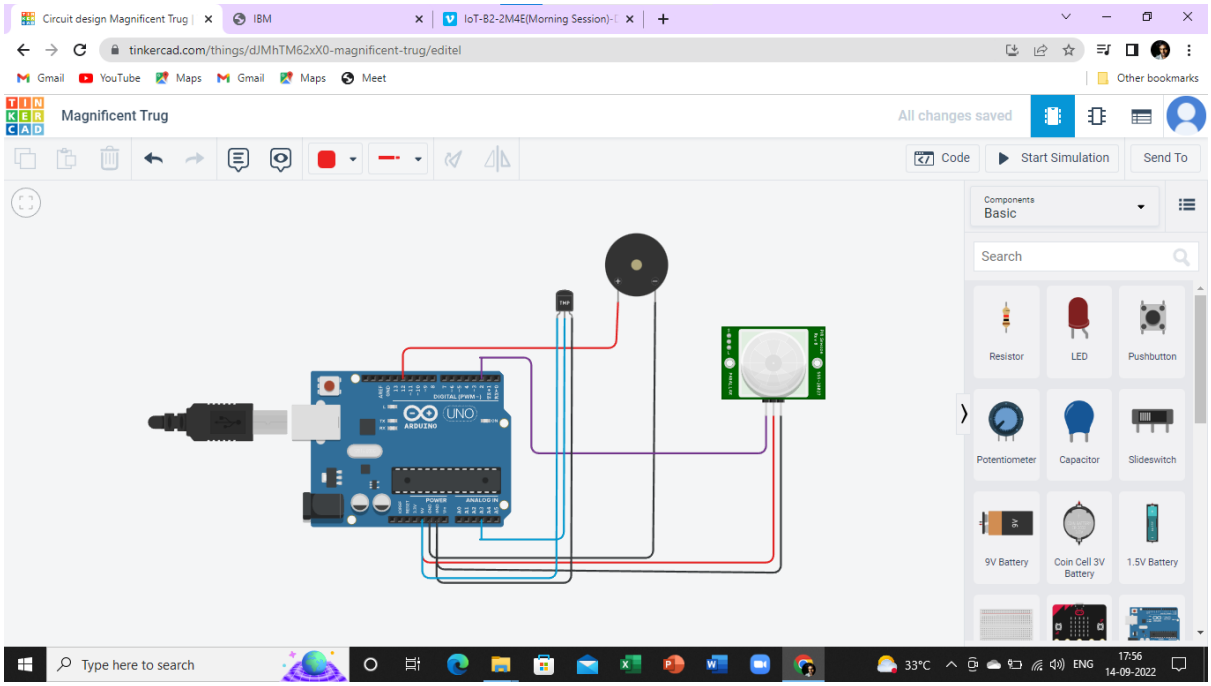
## CIRCUIT LAYOUT :



# Coding :

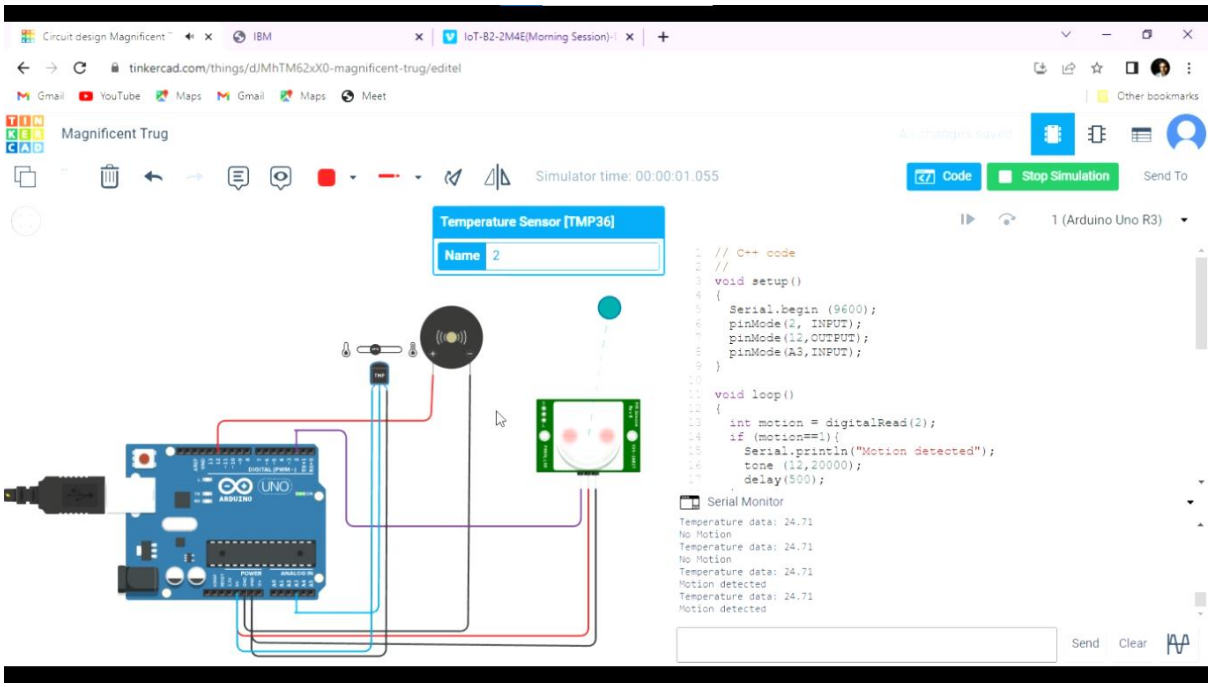
```
 void setup()
{
  Serial.begin (9600);
  pinMode(2, INPUT);
  pinMode(12,OUTPUT);
  pinMode(A3,INPUT);
}

void loop()
{
  int motion = digitalRead(2);
  if (motion==1){
    Serial.println("Motion detected");
    tone (12,20000);
    delay(500);
  }
  else{
    Serial.println("No Motion");
    noTone(12);
  }
{
  double data=analogRead(A3);
  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(12,10000);
  delay(500);
  }
  else
    Serial.print("Temperature data: ");
    Serial.println(temperature);
    noTone(12);
  }
}
```

Output :

1).Passive Infrared Sensor :




2).Temperature Sensor :