IBM ASSIGNMENT-IOT

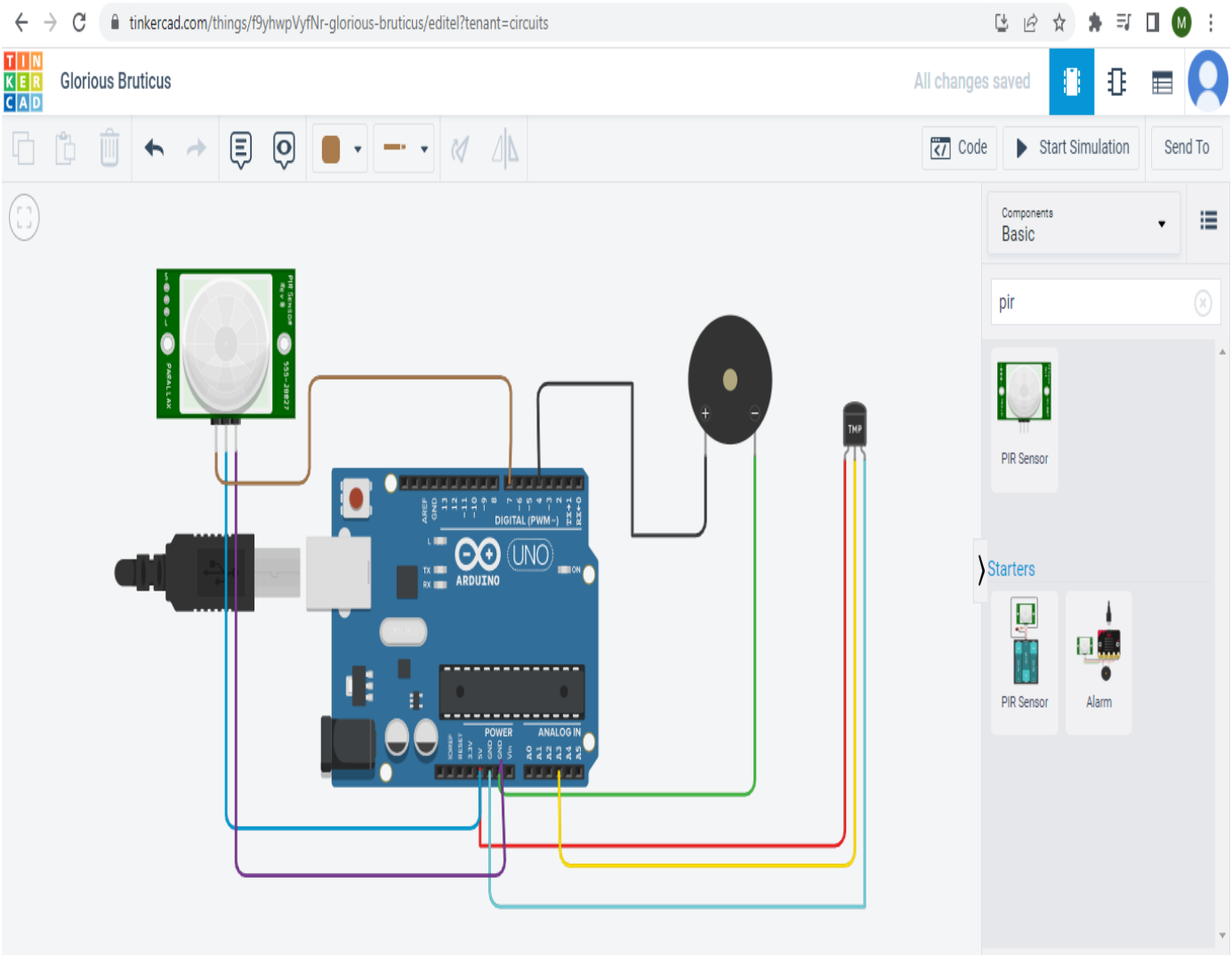
Team Members	:AUSTIN JEREMIA A KISHORE KUMAR S AATHISHWARAN L GOKUL G
Degree	:B.Tech
Branch	:Information Technology
College Name	:V.S.B Engineering College,Karur.

Topic:

To design a circuit using PIR sensor, Temperature sensor and Piezo alarm and to perform the following operations:

1. Alarm should sound in one manner if the temperature is above “60 C”.
2. Alarm should sound with another frequency if motion is detected using PIR sensor.

Circuit:



Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(4,OUTPUT);
  pinMode(7,INPUT);
}
void loop()
{
  int mov=digitalRead(7);
  double dt=analogRead(A3);
  double n=dt/1024;
  double volt=n*5;
  double offset=volt-0.5;
  double temp=offset*100;
  Serial.print("Temperature Detected: ");
  Serial.println(temp);
  if(mov==0){
    Serial.println("No Motion Detected");
  }
  if(mov==1){
    Serial.println("Motion Detected");
    tone(4,100,1000);
  }
```

```
  if(temp>60){
    tone(4,400,1000);
  }
}
```

Output: