IBM ASSIGNMENT-IOT

College Name: V.S.B Engineering College, Karur.

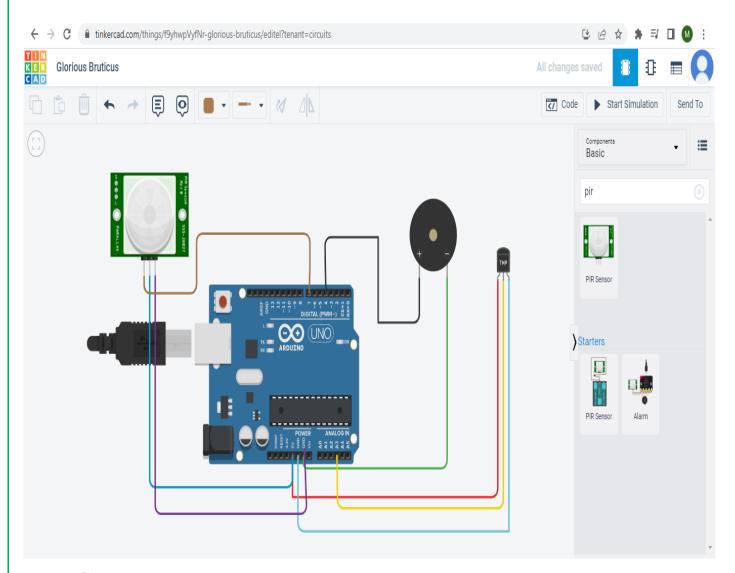
Department : Computer Science and Engineering

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Topic:

Home Appliances Automation Using Arduino

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:

