IBM ASSIGNMENT-IOT

College Name : V.S.B Engineering College,Karur.
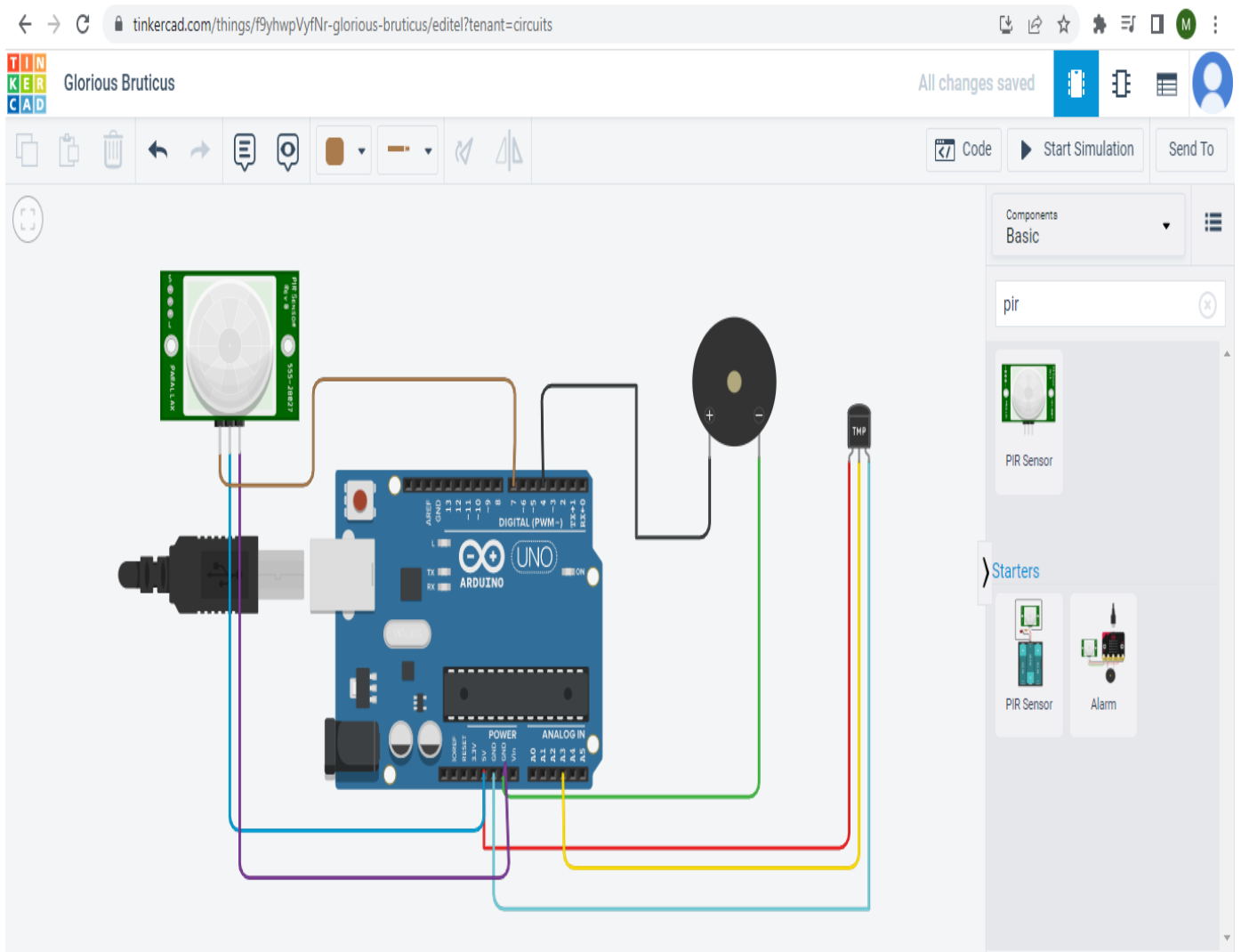
Department   : Computer Science and Engineering

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Topic:

Home Appliances Automation Using Arduino

Circuit:

Code:

```
void setup()
{

  Serial.begin(9600);
  pinMode(4,OUTPUT);
  pinMode(7,INPUT);
}
```

```cpp
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);
  }
}
```