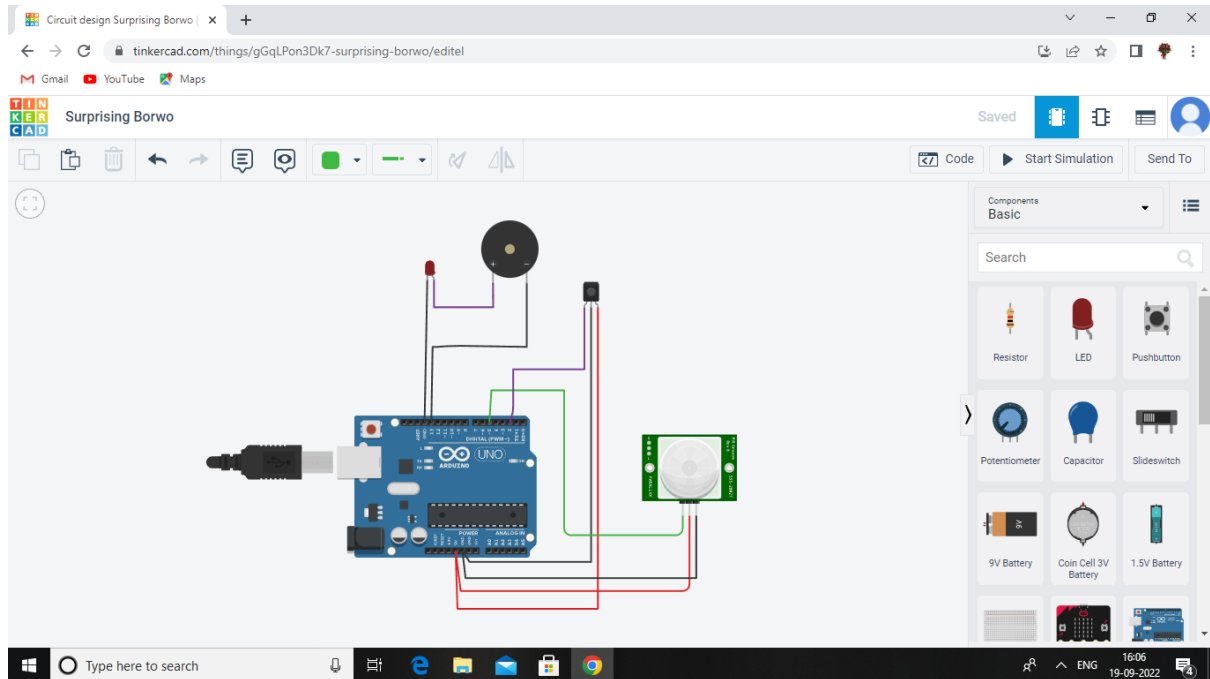


# ASSIGNMENT 1

## Circuit Diagram:



## Code:

// C++ code

//

void setup()

{

pinMode(5,INPUT);

Serial.begin(9600);

pinMode(2,INPUT);

```
Serial.begin(9600);  
pinMode(13,OUTPUT);  
}  
void loop(){  
{  
  int m=digitalRead(5);  
  Serial.print("motion detected:");  
  Serial.println(m);  
  if(m == 1)  
  {  
    int m=digitalRead(2);  
    Serial.print("IRsensor detected:");  
    Serial.println(m);  
    if(m == 1)  
    {  
      Serial.println("yes");  
      digitalWrite(13,HIGH);  
    }  
  }  
  else  
  {  
    Serial.println("no");  
    digitalWrite(13,LOW);  
  }  
}
```

}

}

}

}

## Output:

