

# ASSIGNMENT-1

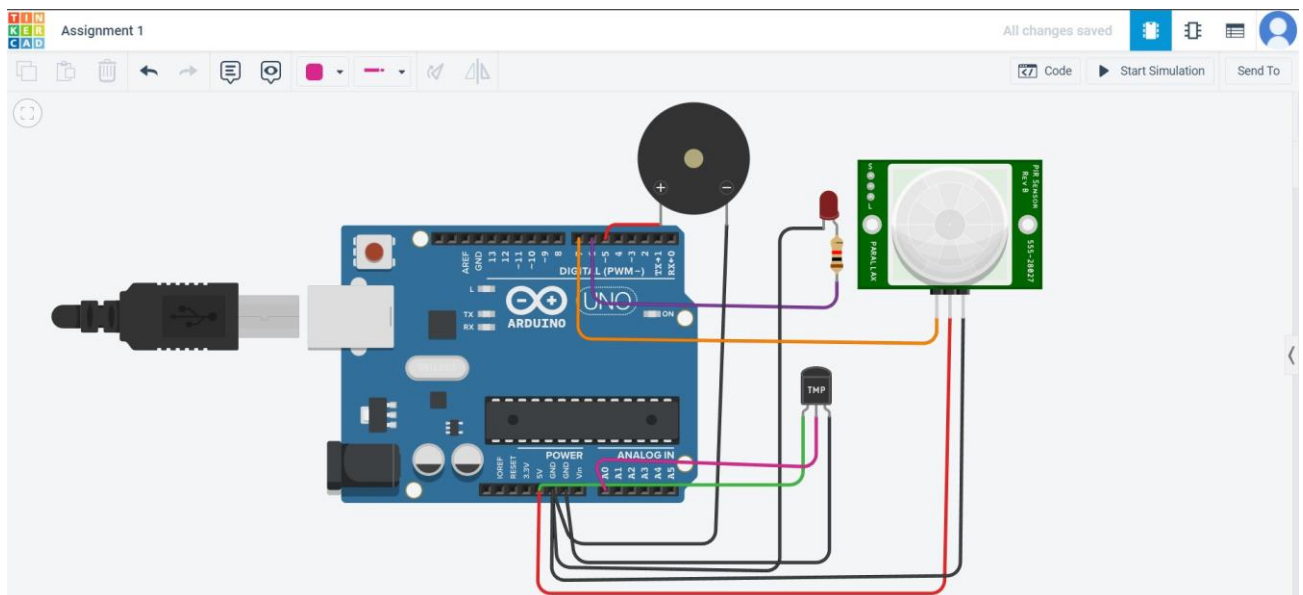
## SMART HOME USING TINKERCAD

ASSIGNMENT DATE:	14-09-2022
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STUDENT ROLL NUMBER:	2019504555
MAXIMUM MARKS:	

### QUESTION:

Make a smart home with sensors in tinkercad

### CIRCUIT:



### CODE:

```
int buzzerPin = 5;
int ledPin = 6;
int motionPin = 7;
int buzzer_mode = 0;
```

```
int ledState = LOW;

void setup()
{
    pinMode(LED_BUILTIN, OUTPUT);
    pinMode(ledPin,OUTPUT);
    pinMode(buzzerPin,OUTPUT);
    Serial.begin(9600);
}

void loop()
{
    if (digitalRead(motionPin))
    {
        buzzer_mode = 1;
    }
    if (buzzer_mode)
    {
        ledState = HIGH;
        tone(buzzerPin,1000);
        Serial.println("MOTION DETECTED");
    }
    digitalWrite(ledPin, ledState);
    if (buzzer_mode == 0)
    {
        noTone(buzzerPin);
        digitalWrite(ledPin, LOW);
        Serial.println("MOTION NOT DETECTED");
    }
}
```

```
}  
double a = analogRead(A0);  
double c = (((a/1024)*5)-0.5)*100;  
Serial.print("TEMPERATURE IN CELSIUS: ");  
Serial.println(c);  
buzzer_mode=0;  
ledState = LOW;  
delay(2000);  
}
```