

ASSIGNMENT-1

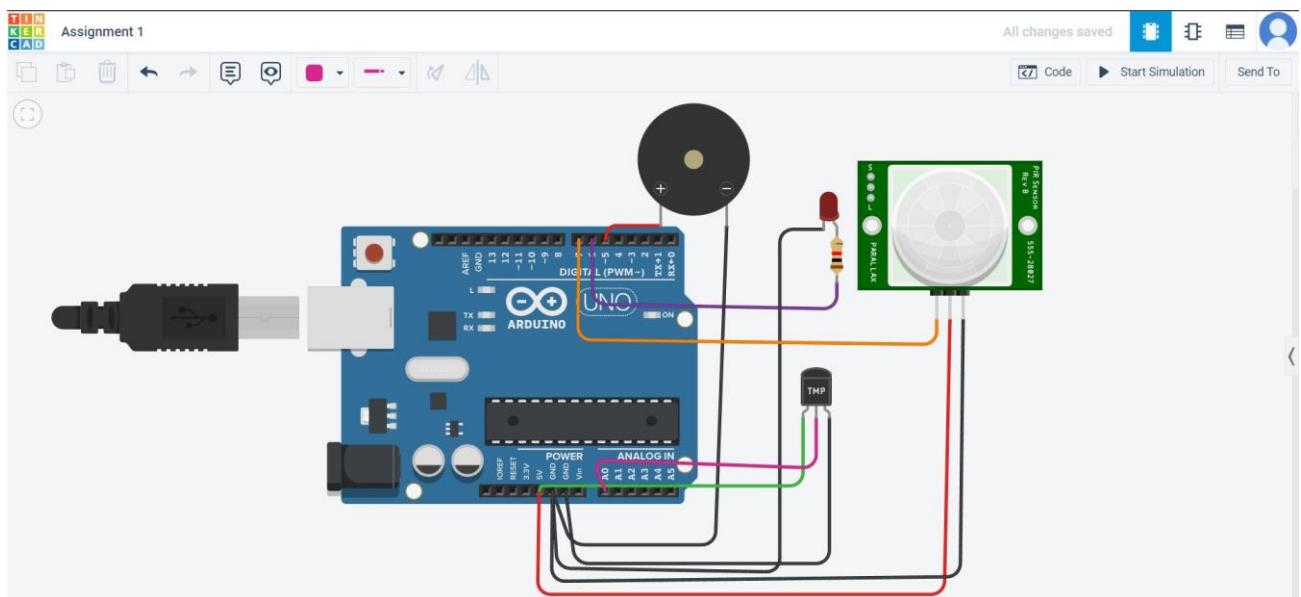
SMART HOME USING TINKERCAD

ASSIGNMENT DATE:	14-09-2022
STUDENT NAME:	NEHA D
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);

}
```