Assignment -1

SMART HOME IN TINKERCAD

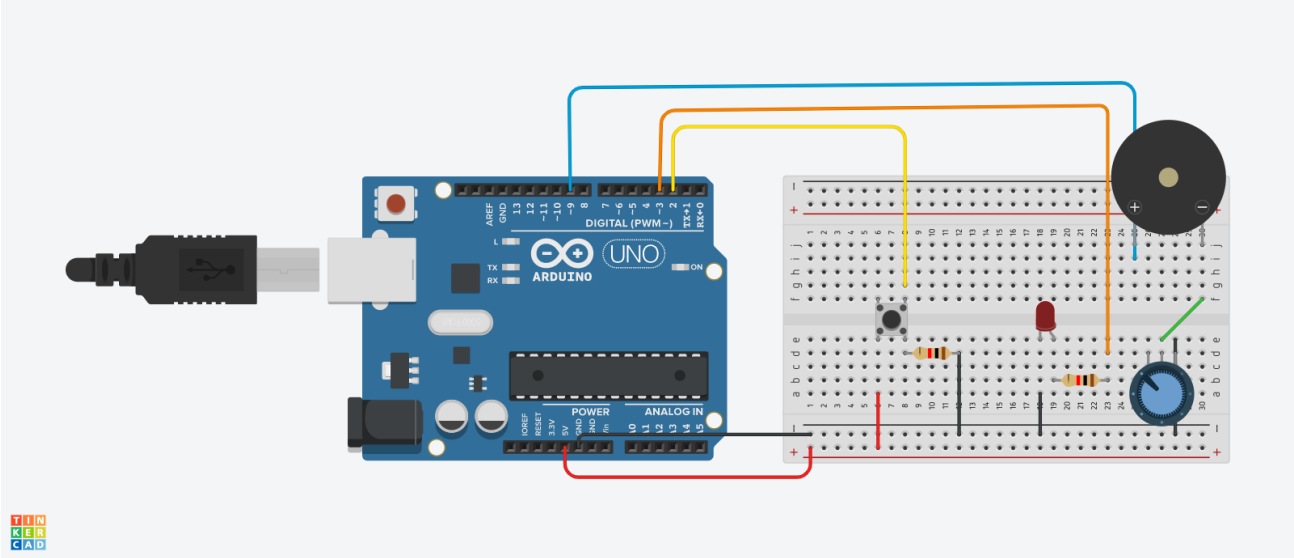
Assignment Date	15 September 2022
Student Name	S. ABARNA
Student Roll Number	815119104001
Maximum Marks	2 Marks

Question-1:

Build a smart home in tinker cad

Use at least 2 sensors, led, buzzer in a circuit. Simulate in a single code.

Solution:

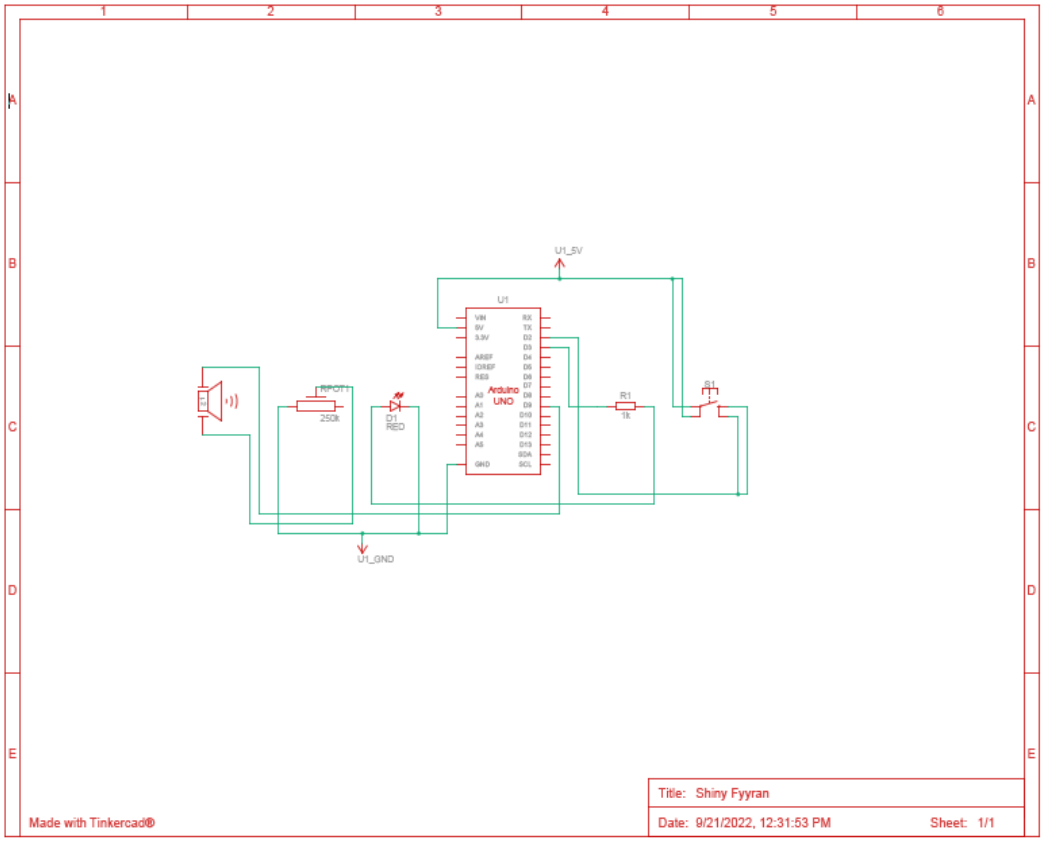


CODE:

```
const int buttonPin = 2;
const int ledPin =  3;
int Buzzer1 = 9;
int buttonState = 0;


void setup()
{
  Serial.begin(9600);
  pinMode(Buzzer1, OUTPUT);
  pinMode(buttonPin, INPUT);
  pinMode(ledPin, OUTPUT);
}
```

```
void loop()
{
  buttonState = digitalRead(buttonPin);
  if (buttonState == HIGH)
 {
    digitalWrite(ledPin, HIGH);


     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,450,225);
     delay(300);
     tone(Buzzer1,450,225);
     delay(500);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,450,200);
     delay(300);
     tone(Buzzer1,600,300);
     delay(300);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,700,300);
     delay(300);
     tone(Buzzer1,700,300);
     delay(500);
     tone(Buzzer1,600,300);
     delay(300);
     tone(Buzzer1,400,200);
     delay(1000);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,650,200);
     delay(500);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,650,200);
     delay(300);
     tone(Buzzer1,650,200);
     delay(500);
     tone(Buzzer1,400,200);
     delay(500);
     tone(Buzzer1,400,200);
     delay(500);
```

```
    tone(Buzzer1,400,200);
    delay(1000);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,600,300);
    delay(500);
    tone(Buzzer1,600,300);
    delay(500);
    tone(Buzzer1,800,300);
    delay(500);
    tone(Buzzer1,800,300);
    delay(500);
    tone(Buzzer1,400,200);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,400,200);
    delay(500);
    tone(Buzzer1,300,150);
    delay(500);
    tone(Buzzer1,300,150);
    delay(500);
    tone(Buzzer1,300,150);
    delay(500);
    tone(Buzzer1,300,150);
    delay(500);
    tone(Buzzer1,300,150);
    tone(Buzzer1,300,150);
    tone(Buzzer1,300,150);
    tone(Buzzer1,300,150);


  }
}
```


1
2
3
4
5
6
A
B
C
D
E
U1_5V
U1
Arduino
UNO
RPOT1
250k
D1
RED
R1
1k
S1
U1_GND
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