

## Assignment -1

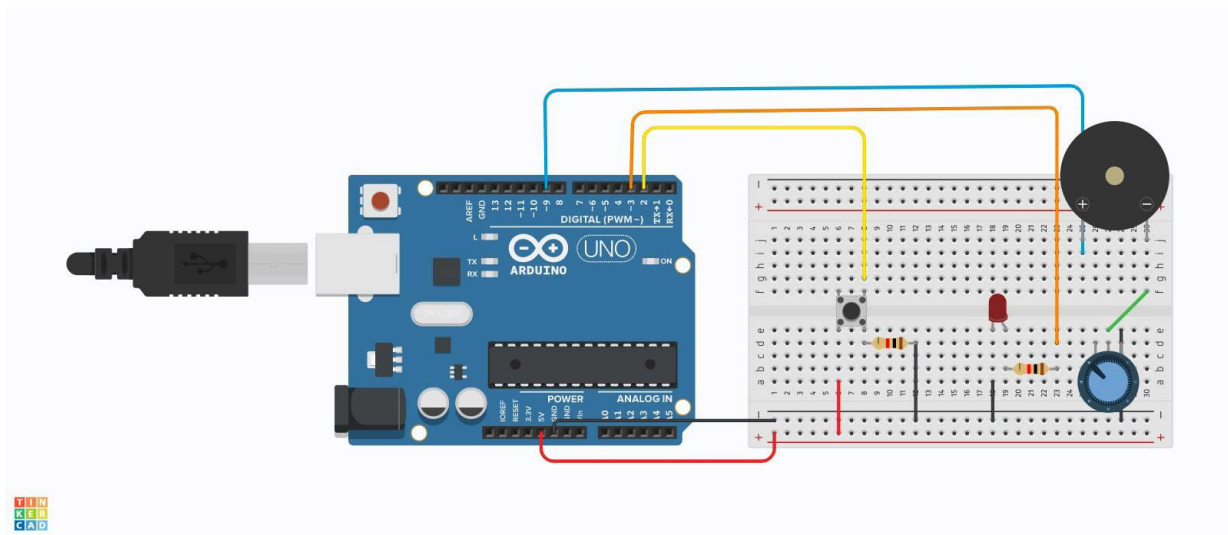
### SMART HOME IN TINKERCAD

#### Question-1:

Build a smart home in tinkercad

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(Buzzer1,300,  
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);
```

```
}  
}
```