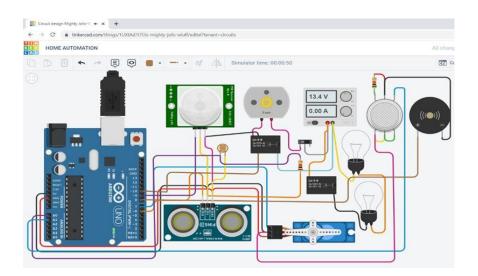
Assignment -1 Tinker Cad Circuit

Assignment Date	12 September 2022
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Maximum Marks	2 Marks



Smart Home automation in Tinker cad, using sensors

Code:

```
Code:
#include <Servo.h>
int output 1 Value = 0;
int sen1Value = 0;
int sen 2Value = 0;
int const gas_sensor =
A1;
int const LDR = A0;
int limit = 400;
long
readUltrasonicDistance
(int triggerPin, int
echoPin)
{
pinMode(triggerPin,
OUTPUT);
digitalWrite(triggerPin,
LOW);
delayMicroseconds(2);
digitalWrite(triggerPin,
HIGH);
```

```
delayMicroseconds(10)
digitalWrite(triggerPin,
LOW);
pinMode(echoPin,
INPUT);
return
pulseIn(echoPin,
HIGH);
Servo servo_7;
void setup()
 Serial.begin(9600);
pinMode(A0,
INPUT);
pinMode(A1,INPUT);
pinMode(13,
OUTPUT);
servo_7.attach(7, 500,
2500);
pinMode(8,OUTPUT);
pinMode(9, INPUT);
pinMode(10,
OUTPUT);
pinMode(4,
OUTPUT);
pinMode(3,
OUTPUT);
}
void loop()
  int val1 =
analogRead(LDR);
if (val1 > 500)
      digitalWrite(13,
LOW);
  Serial.print("Bulb
ON = ");
  Serial.print(val1);
else
```

```
digitalWrite(13,
HIGH);
  Serial.print("Bulb
OFF = ");
  Serial.print(val1);
      }
 sen2Value =
digitalRead(9);
if (sen2Value == 0)
      digitalWrite(10,
LOW);
      digitalWrite(4,
HIGH);
      digitalWrite(3,
LOW);
  Serial.print(" || NO
Motion Detected ");
if (sen2Value == 1)
      digitalWrite(10,
HIGH);
  delay(5000);
      digitalWrite(4,
LOW);
      digitalWrite(3,
HIGH);
  Serial.print("
       || Motion
Detected! ");
      }
int val =
analogRead(gas_sensor
Serial.print("|| Gas
Sensor Value = ");
Serial.print(val);
//val = map(val, 300,
750, 0, 100);
if (val > limit)
      tone(8, 650);
      delay(300);
      noTone(8);
sen1Value = 0.01723
readUltrasonicDistance
(6, 6);
 if (sen1Value < 100)
      servo_7.write(9
0);
```