

Assignment -1

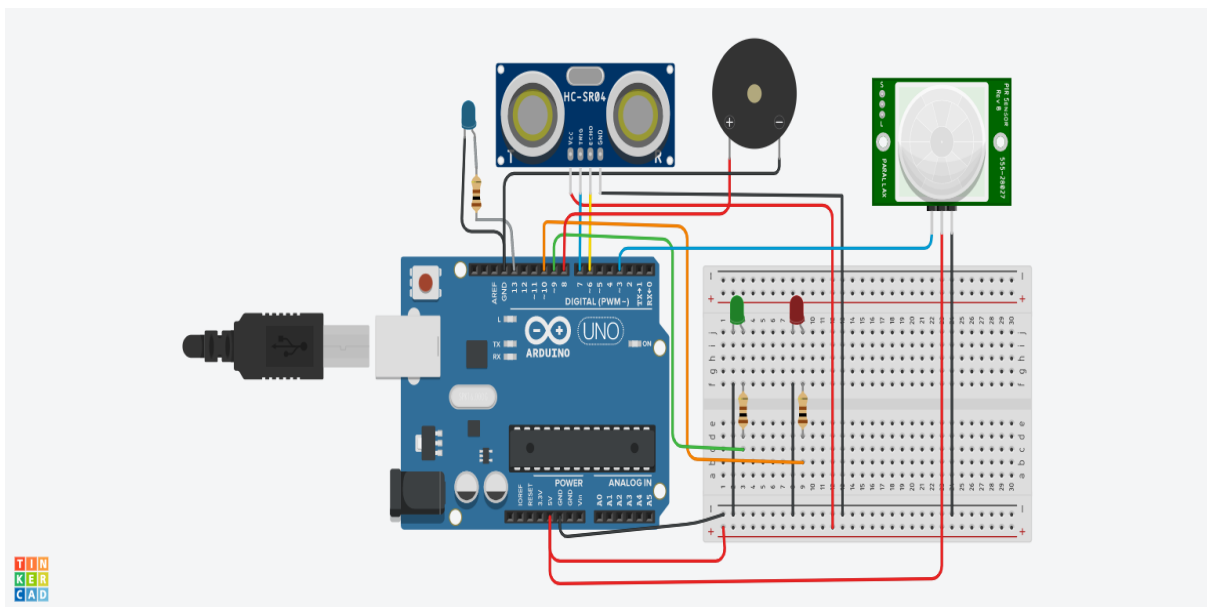
Python Programming

Assignment Date	19 September 2022
Student Name	AKASH.K
Student Roll Number	820419106005
Maximum Marks	2 Marks

Question:

Make a smart home with 2-3 sensors, LED , Buzzer in single code and connections.

Circuit:



Program code:

```
#define Trigpin 7
#define Echopin 8
#define low_led 9
#define high_led 10
float distance;
int duration;
int ll = 700;
```

```
void setup() {  
    pinMode (Trigpin, OUTPUT);  
    pinMode (low_led, OUTPUT);  
    pinMode (high_led, OUTPUT);  
    pinMode (Echopin, INPUT);  
    Serial.begin(9600);  
    Serial.println ("Welcome To Distance Meter");  
    Serial.println ("Coded By Jevins Annson");  
    digitalWrite (low_led, LOW);  
    digitalWrite (high_led, LOW);  
}
```

```
void loop() {  
    digitalWrite(Trigpin, LOW);  
    delayMicroseconds(2);  
    digitalWrite(Trigpin, HIGH);  
    delayMicroseconds(10);  
    digitalWrite(Trigpin, LOW);  
    duration = pulseIn(Echopin, HIGH);  
    distance = duration * 0.034 / 2;  
    delay (11);  
    Serial.println (" ");  
    Serial.print ("Distance = ");  
    Serial.print (distance);  
    Serial.print (" CM");  
    Serial.println (" ");  
  
    if (distance >= 30)  
    {  
        Serial.println ("Nobody Is Infront Of the Sensor");  
        digitalWrite (low_led, HIGH);  
    }
```

```
    delay (500);  
    digitalWrite (low_led, LOW);  
    delay (500);  
    digitalWrite (low_led, HIGH);  
}  
else  
{  
    Serial.println ("Someone Is Infront Of the Sensor");  
    digitalWrite (high_led, HIGH);  
    delay (100);  
    digitalWrite (high_led, LOW);  
    delay (100);  
    digitalWrite (high_led, HIGH);  
    delay (100);  
}  
}
```