## Assignment -1

## **Home Automation**

| Assignment Date     | 19 September 2022 |
|---------------------|-------------------|
| Student Name        | Bhuvaneshwari G   |
| Student Roll Number | 210619106007      |
| Maximum Marks       | 2 Marks           |

## Question-1:

temp = temp - 0.5;

```
Build a smart home in Thinkercad with 2 sensors, an Led, buzzer.
Solution: float
x,y,z,temp; void
setup()
{
pinMode(8, INPUT); pinMode(5,
OUTPUT); pinMode(6,
OUTPUT); pinMode(A5, INPUT);
pinMode(A4, INPUT);
Serial.begin(9600);
}
void loop()
{
 x= digitalRead(8);
y= analogRead(A5);
z= analogRead(A4);
Serial.println(x);
Serial.println(y);
Serial.println(z); temp =
(double)z / 1024;
temp = temp * 5;
```

```
temp = temp * 100;
if ((x>0))
{
 if ((y<550)&&(temp>30))
 {
digitalWrite(5, HIGH);
digitalWrite(6, HIGH);
 }
 else if((y<550)&&(temp<30))
digitalWrite(5, HIGH);
digitalWrite(6, LOW);
 else if((y>550)&&(temp>30))
digitalWrite(5, LOW);
digitalWrite(6, HIGH);
  else if((y>550)&&(temp<30))
 {
digitalWrite(5, LOW);
digitalWrite(6, LOW);
else
digitalWrite(5, LOW);
digitalWrite(6, LOW);
}
}
```

