

Assignment -1
Python Programming

Assignment Date	15 September 2022
Student Name	Ms. RAMYA P
Student Roll Number	621319106074
Maximum Marks	2 Marks

Question-1:

HOME AUTOMATION USING TINKERCAD

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 - 0.5;
    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);
    }
}

```

