Assignment -1 Smart Waste Management

Assignment Date	19 September 2022
Student Name	Mr. GNANA SEKAR P
Student Roll Number	910619106016
Maximum Marks	2 Marks

Question-1:

HOME AUTOMATION:

INTERNET OF THINGS:

" SMART WASTE MANAGEMENT SYSTEM"

Coding:

```
// INTERNET OF THINGS
int t = 3;
int e = 2;
void setup()
Serial.begin(9600);
pinMode(t,OUTPUT);
pinMode(e,INPUT);
pinMode(13,OUTPUT);
pinMode(4,INPUT);
pinMode(12,OUTPUT);
void loop()
// OBJECT DETECTION :
digitalWrite(t,LOW);
digitalWrite(t,HIGH);
delayMicroseconds(10);
digitalWrite(t,LOW);
float dur=pulseIn(e,HIGH);
```

```
float dis=(dur*0.0343)/2;
Serial.print("Distance :");
Serial.println(dis);
// TEMPERATURE SENSING :
double a = analogRead(A0);
double c = (((a/1024)*5)-0.5)*100;
Serial.print("Temp :");
Serial.println(c);
delay(2000);
// MOTION DETECTOR
int p = digitalRead(4);
Serial.println(p);
if(p)
Serial.println("Motion Detected");
delay(1000);
// BUZZER
for(int i=0;i<=30000;i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
// BY GNANA SEKAR P
```

