Assignment -1

" SMART WASTE MANAGEMENT SYSTEM "

Assignment Date	**19 September 2022**
Student Name	**Mr. NAVEEN KUMAR N**
Student Roll Number	**910619106034**
Maximum Marks	**2 Marks**

Question-1:

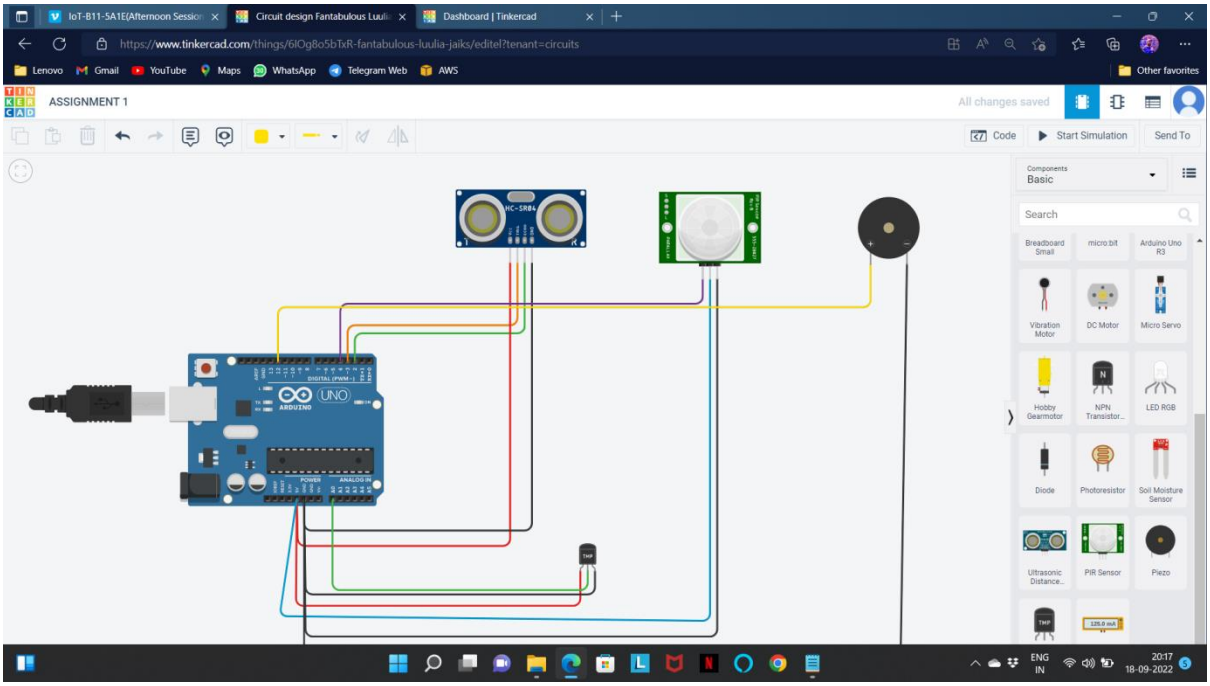
HOME AUTOMATION :

INTERNET OF THINGS :

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 NAVEEN KUMAR N
```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ASSIGNMENT 1
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