

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);
```

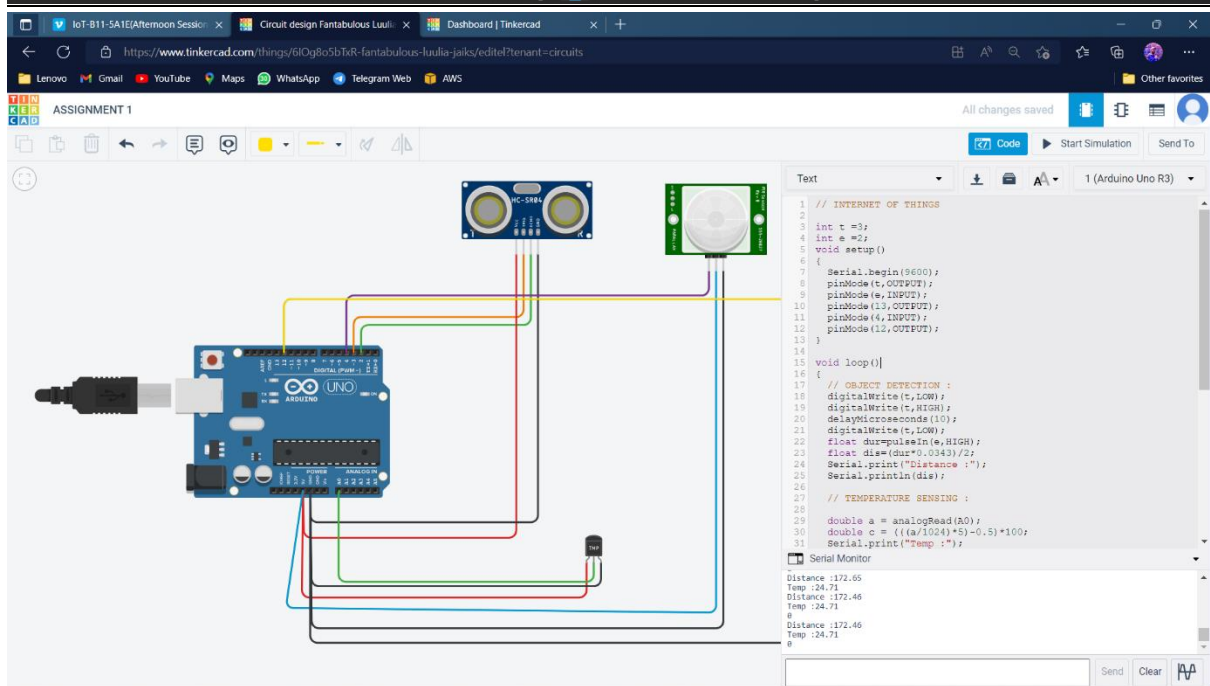
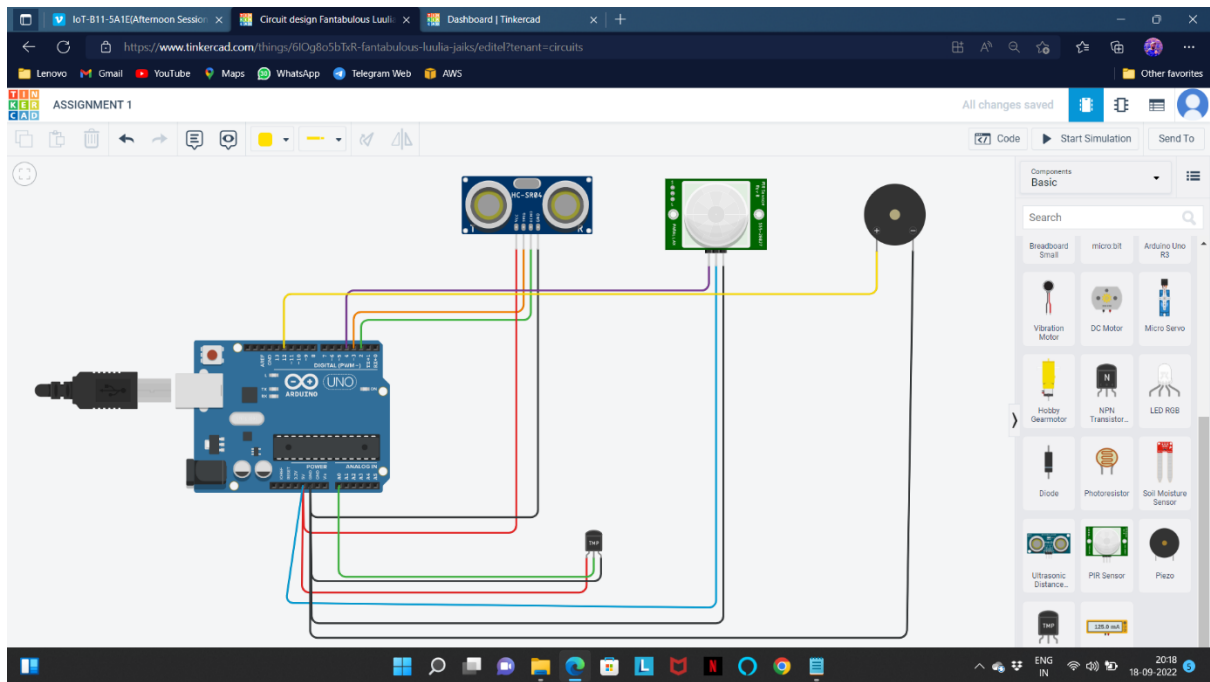
```
noTone(12);
```

```
delay(1000);
```

```
}
```

```
}
```

```
// BY NAVEEN KUMAR N
```



IoT-B11-5A1E(Afternoon Session) x Circuit design Fantabulous Luul... x Dashboard | Tinkercad x +

https://www.tinkercad.com/things/6IOg8o5bTxR-fantabulous-luulia-jacks/edit?tenant=circuits

Lenovo Gmail YouTube Maps WhatsApp Telegram Web AWS

ASSIGNMENT 1

All changes saved Start Simulation Send To

Code

1 (Arduino Uno R3)

Text

```
26
27 // TEMPERATURE SENSING :
28
29 double a = analogRead(A0);
30 double c = (((a/1024)*5)-0.5)*100;
31 Serial.print("Temp :");
32 Serial.println(c);
33 delay(2000);
34
35 // MOTION DETECTOR
36
37 int p = digitalRead(4);
38 Serial.println(p);
39 if(p)
40   Serial.println("Motion Detected");
41   delay(1000);
42
43 // BUZZER
44
45 for(int i=0;i<=30000;i=i+10)
46 {
47   tone(12,i);
48   delay(1000);
49   noTone(12);
50   delay(1000);
51 }
52
53
54
55
56 // BY NAVEEN KUMAR N
```

Serial Monitor

Distance :172.65
Temp :24.71
Distance :172.46
Temp :24.71
0
Distance :172.46
Temp :24.71
0

Send Clear

