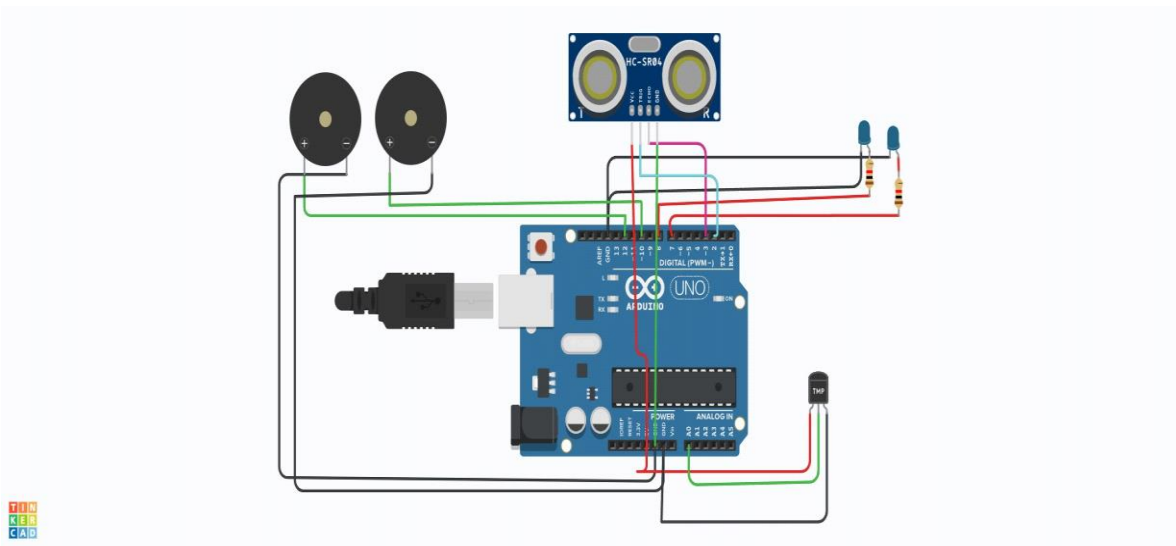


IBM – Nallaiya Thiran Project

Excel Engineering College

Assignment-1

ABIRAMI.A



```
void setup()
{
  Serial.begin(9600);
  pinMode(A2,INPUT);
  pinMode(12,OUTPUT);
  pinMode(2,INPUT);
}
```

```
void loop()
```

```
{  
double  
data=analogRead(A2);  
double n=data/1024;  
double volt=n*5;  
double off=volt-  
0.5;  
double temperature=off*100;  
Serial.print("Temperature data:  
");Serial.println(temperature);  
int motion=digitalRead(2);  
Serial.print("position is :");  
Serial.println(motion);  
if(motion==1){  
Serial.println("Motion  
detected");tone(12,1000);  
delay(2002);  
}  
  
else{  
Serial.println("No  
Motion");noTone(12);  
delay(200);  
}  
if(temperature >=60)
```

```
{  
tone(12,300  
0);  
delay(200);  
  
}  
else  
{  
noTone(1  
2);  
delay(200  
);  
}  
}
```