

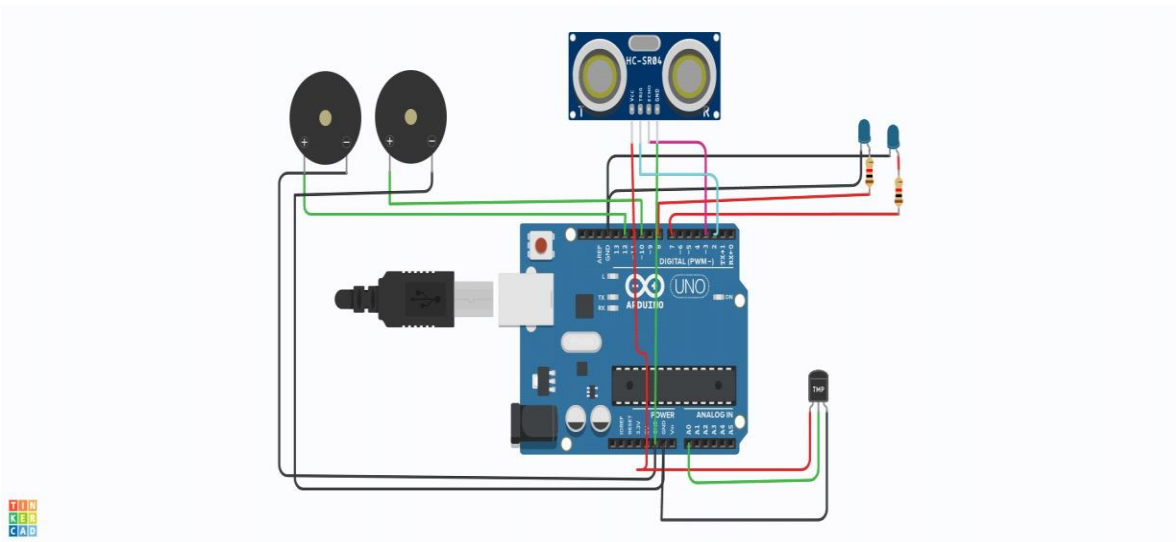
IBM – Nallaiya Thiran Project

Excel Engineering College

Assignment -1

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

```
T);  
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  
);  
}  
}
```