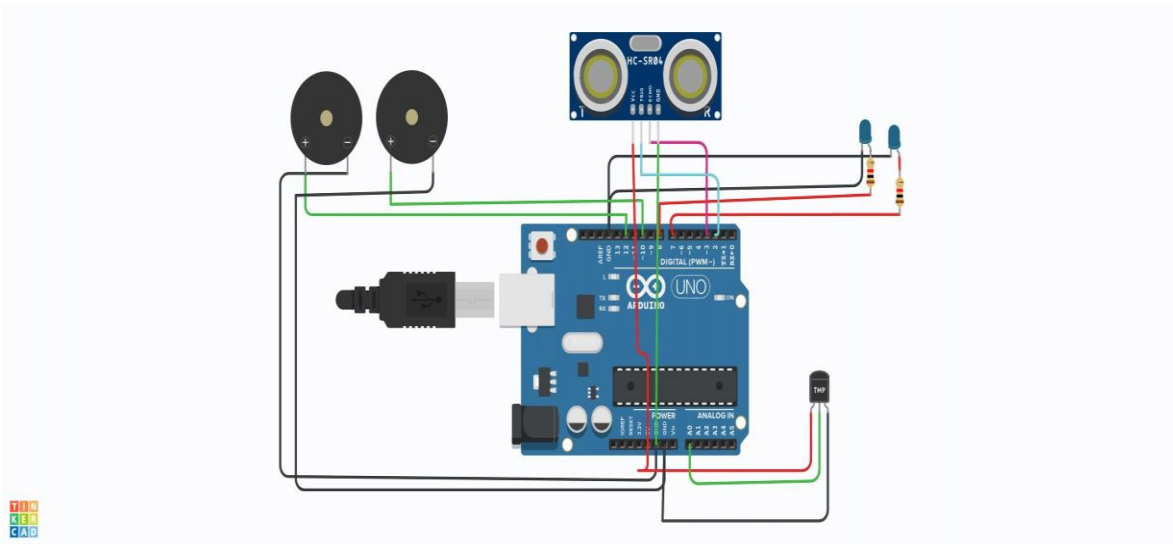# IBM – Nallaiya Thiran Project

Excel Engineering College

Assignment-1

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```
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(12,3000)
;
delay(200);

}
else
{
noTone(12
);
delay(200);
}

}
```