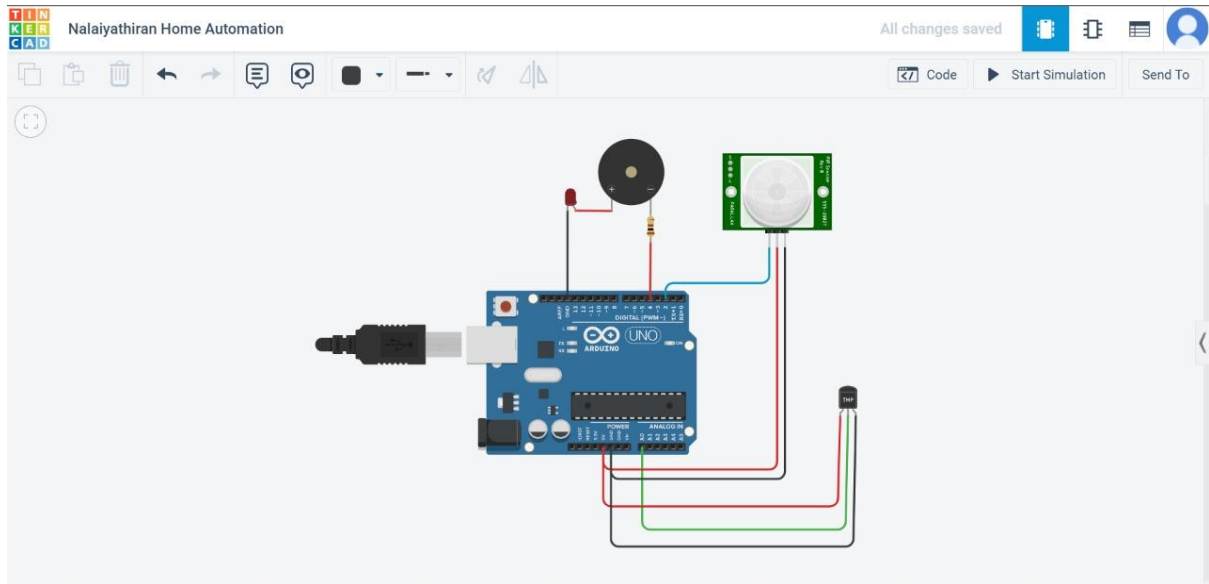


Assignment – 1

Circuit:



Code:

```
void setup()
```

```
{
```

```
    pinMode(2, INPUT);
```

```
    pinMode(4, OUTPUT);
```

```
    Serial.begin(9400);
```

```
}
```

```
void loop()
```

```
{
```

```
    double tempValue = analogRead(A0);
```

```
    double temperature = (((tempValue/1024)*500)-50);
```

Output:



TIN K E R C A D Nalaiyathiran Home Automation All changes saved Simulator time: 00:00:13

Code Stop Simulation Send To

Temperature Sensor [TMP36]
Name 2

```

6  pinMode(4, OUTPUT);
7  Serial.begin(9400);
8  }
9
10 void loop()
11 {
12   double tempValue = analogRead(A0);
13   double temperature = (((tempValue/1024)*500)-50);
14 }

```

Serial Monitor

```

Alert!!!
Temperature in Celsius: 68.65
Alert!!!
Temperature in Celsius: 68.65
Alert!!!
Temperature in Celsius: 68.65
Alert!!!
Temperature in Celsius: 68.65
Alert!!!
Temperature in Celsius: 68.65
Alert!!!

```

Send Clear

TIN K E R C A D Nalaiyathiran Home Automation All changes saved Simulator time: 00:00:31.998

Code Stop Simulation Send To

PIR Sensor
Name 1

```

6  pinMode(4, OUTPUT);
7  Serial.begin(9400);
8  }
9
10 void loop()
11 {
12   double tempValue = analogRead(A0);
13   double temperature = (((tempValue/1024)*500)-50);
14 }

```

Serial Monitor

```

Alert!!!
Temperature in Celsius: 27.15
Alert!!!
Temperature in Celsius: 27.15
Alert!!!
Temperature in Celsius: 27.15
Temperature in Celsius: 27.15
Temperature in Celsius: 27.15
Temperature in Celsius: 27.15
Temperature in Celsius: 27.15
Temp

```