

## Assignment – 1

Using PIR sensor and sensor and temp36(Temperature sensor) Piezo Alarm, please create a circuit with Arduino uno with below functionalities:

- 1.Alarm should give one sound when there is a motion near PIR sensor
- 2.Alam should sound with different sound when temperature is above 60 degrees Source

Code:

```
void setup()
{
  Serial.begin(9600);
  pinMode(13,INPUT);
  pinMode(12,OUTPUT);
}
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);
  if(temperature >60)
  {
    tone(12,250);
    delay(500);
    noTone(12);
  }
  int motion=digitalRead(13);
```

```

if(motion==1)
{
    Serial.println("Motion detected");
    tone(12,100);
    delay(500);
    noTone(12);
}
}

```

