



Components
Basic

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|------------------------|-------------------|----------------------|
| | | |
| Hobby Gearmotor | NPN Transistor... | LED RGB |
| | | |
| Diode | Photoresistor | Soil Moisture Sensor |
| | | |
| Ultrasonic Distance... | PIR Sensor | Piezo |
| | | |
| Temperature Sensor... | Multimeter | |

```
int pinSensor =2; int pinBuzzer
=7; int pirSensor =0; float
sensor=A3; float analog; float
tempv; float tempc; float tempf;
void setup() {
pinMode(pinSensor, INPUT);
pinMode(sensor, INPUT);
pinMode(pinBuzzer, OUTPUT);
    Serial.begin(9600);
} void loop() {
analog=analogRead(sensor);
tempv=analog*5.0/1023;
tempc=(tempv-0.5)*100.0;
tempf=((tempc*9.0)/5.0)+32.0;
Serial.print("temperature:");
Serial.println(tempc); if
(tempc >=60)
{
tone(pinBuzzer, 200, 100);
} delay(100); pirSensor =
digitalRead(pinSensor); if
(pirSensor == HIGH)
```

```
{  
tone(pinBuzzer, 1000, 500);  
} delay(100);  
}
```