Smart house

Project details: Submitted by: Rohit Sonar

Technology: IOT **Reg num: 718019Z342**

Domain: Smart solution for railways

[code]

```
const int hot = 87; //set hot parameter

const int cold = 75; //set cold parameter


int Buzz= 13; // Define Buzzer pin

int PIR= 4; // Define PIR pin

int val= 0; // Initializing the value as zero at the beginning


void setup() {

pinMode(A1, INPUT); //sensor

pinMode(12, OUTPUT); //red

pinMode(11, OUTPUT); //green

pinMode(10, OUTPUT); //blue

Serial.begin(9600);


pinMode(Buzz, OUTPUT);

pinMode(PIR, INPUT);

Serial.begin(9600);

}

void loop() {
```

```
int sensor = analogRead(A2);
float voltage = (sensor / 1024.0) * 5.0;
float tempC = (voltage - .5) * 100;
float tempF = (tempC * 1.8) + 32;
Serial.print("temp: ");
Serial.print(tempF);
if (tempF < cold) { //cold
digitalWrite(12, HIGH);
digitalWrite(11, LOW);
digitalWrite(10, LOW);
Serial.println(" It's Cold.");

  if(val == HIGH){
  digitalWrite(Buzz, HIGH); // Turn Buzzer ON
  Serial.println("Movement Detected"); // Print this text in Serial Monitor
}

else if (tempF >= hot) { //hot
digitalWrite(12, LOW);
digitalWrite(11, LOW);
digitalWrite(10, HIGH);
Serial.println(" It's Hot.");
}
else { //fine
digitalWrite(12, LOW);
```

```
digitalWrite(11, HIGH);

digitalWrite(10, LOW);

Serial.println(" It's Fine.");


 digitalWrite(Buzz, LOW);

 Serial.println("Movement not Detected");


}

delay(1000);

}

}
```

[/code]

Circuit diagram: