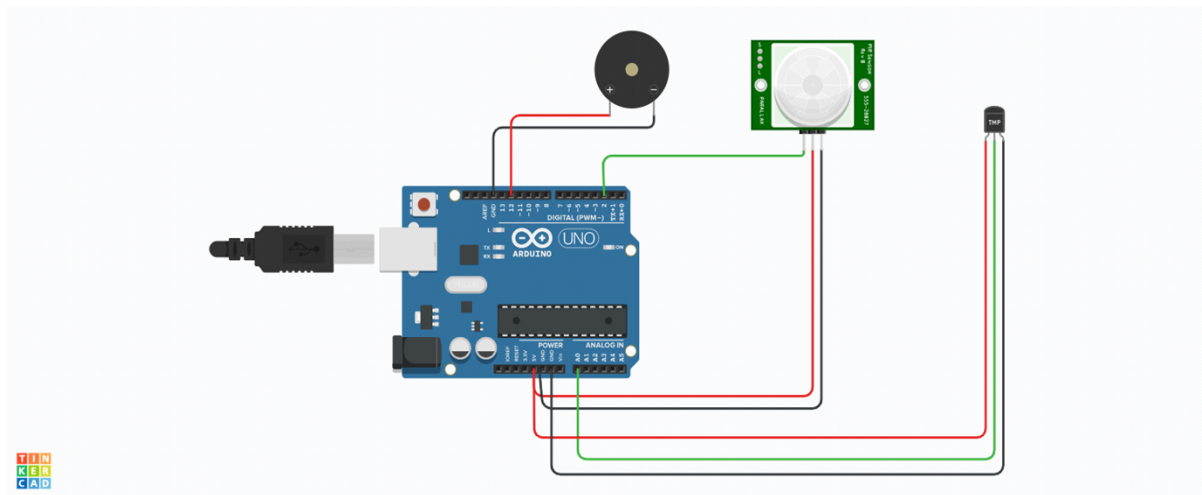
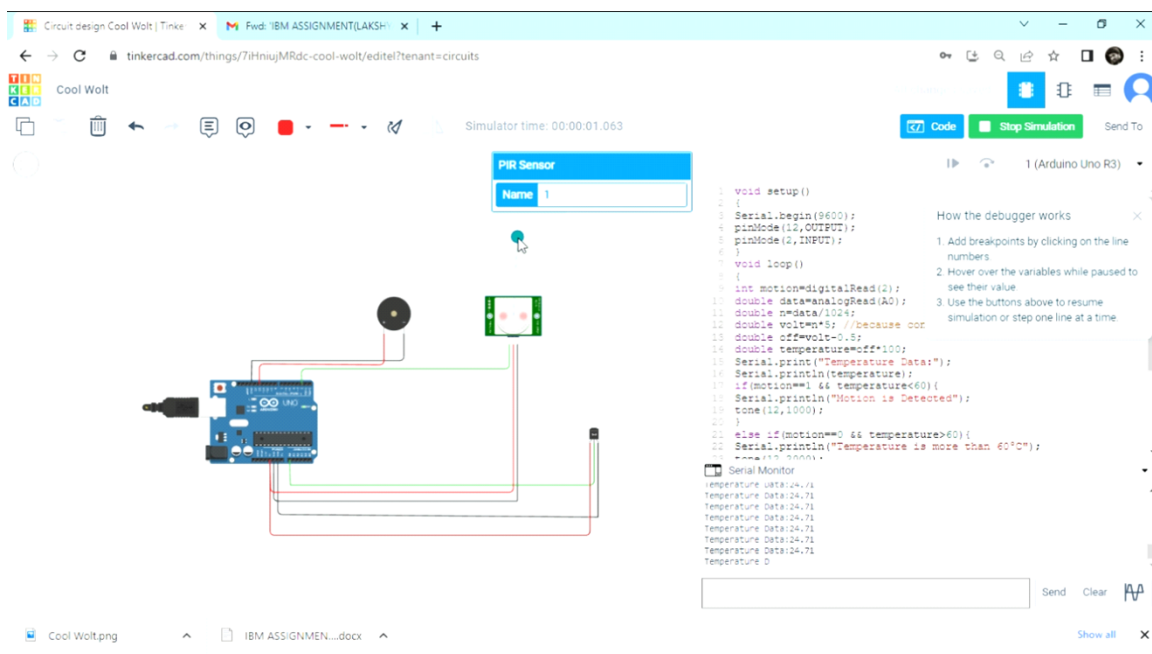


CIRCUIT DIAGRAM



OUTPUT



PROGRAM

```
void setup()
{
    Serial.begin(9600);
    pinMode(12,OUTPUT);
    pinMode(2,INPUT);
}
```

```
}
```

```
void loop()
```

```
{
```

```
    int motion=digitalRead(2);
```

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

```
    double n=data/1024;
```

```
    double volt=n*5; //because connected to 5v
```

```
    double off=volt-0.5;
```

```
    double temperature=off*100;
```

```
    Serial.print("Temperature Data: ");
```

```
    Serial.println(temperature);
```

```
    if(motion==1 && temperature<60){
```

```
        Serial.println("Motion is Detected");
```

```
        tone(12,1000);
```

```
    }
```

```
    else if(motion==0 && temperature>60){
```

```
        Serial.println("Temperature is more than 60°C");
```

```
        tone(12,2000);
```

```
    }
```

```
    else if(motion==1 && temperature>60){
```

```
        Serial.println("Motion is Detected");
```

```
        Serial.println("Temperature is more than 60°C");
```

```
        tone(12,5000);
```

```
}  
else if(motion==0 && temperature<60)  
    noTone(12);  
  
}
```