

ASSIGNMENT-1 SOURCE CODE

```
int temp,light,bulb=13,fan=12,buzzer=11;
```

```
void setup()
```

```
{  
  Serial.begin(9600);  
  pinMode(A0, INPUT);  
  pinMode(A1, INPUT);  
  pinMode(bulb,OUTPUT);  
  pinMode(fan,OUTPUT);  
  pinMode(buzzer,OUTPUT);  
}
```

```
void loop()
```

```
{  
  
  light=analogRead(A0);  
  temp=map(((analogRead(A1) - 20) * 3.04), 0, 1023, -40, 125);  
  Serial.print(light);  
  Serial.print(" ");  
  
  Serial.println(temp);  
  if(light<500){  
    digitalWrite(bulb,HIGH);  
  }  
}
```

```
else{  
    digitalWrite(bulb,LOW);  
}  
if(temp>24){  
    digitalWrite(fan,HIGH);  
}  
else{  
    digitalWrite(fan,LOW);  
}  
if(temp>30){  
    digitalWrite(buzzer,HIGH);  
}  
else{  
    digitalWrite(buzzer,LOW);  
}  
}
```