

ASSIGNMENT -1
PYTHON PROGRAMMING

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Write a python code for smart home application

SolutionCode

```
int Buzzer=2;

int Temperature_sensor= A2; int
PIR= A1; int val1= 0;

int val2= 0; void setup()
{
pinMode(Buzzer, OUTPUT);
pinMode(Temperature_sensor, INPUT);
pinMode(PIR, INPUT);
Serial.begin(9600);
}

void
loop() {
val1 = analogRead(PIR);
val2 = analogRead(Temperature_sensor);
float temp = ( val2/1024.0)*5000;
float cel = temp/10; if(val1 == HIGH)
{

digitalWrite(Buzzer, HIGH);
}

else if(cel > 60)
```

```
{  
  
digitalWrite(Buzzer,HIGH);  
}  
Else  
{  
digitalWrite(Buzzer,LOW)  
}  
}
```

