## Question:

Write a program for smart home application using Arduino with any two sensors

## Solution:

```
C++ CODE
int t1=4;
int e1=5;
int buzzer=13;
void setup()
                        WPS Office
 Serial.begin(9600);
 pinMode(t1,OUTPUT);
 pinMode(e1,INPUT);
 pinMode(buzzer,OUTPUT);
 pinMode(9, OUTPUT);
void loop()
 digitalWrite(t1,LOW);
 digitalWrite(t1,HIGH);
 delayMicroseconds(10);
 digitalWrite(t1,LOW);
 float dur1 =pulseIn(e1,HIGH);
 float dis1=(dur1*0.0343)/2;
//Serial.print("Distance is :");
 //Serial.println(dis1);
 buzzer=map(dis1,330,10,0,255);
```

```
analogWrite(13,buzzer);
int a=analogRead(A0);
int bb=map(a,0,1023,0,255);
Serial.println(bb);
if(bb>70){
Serial.println("Smoke Detected");
```