

Assignment-1
Python
Programming

Assignment Date	19 September 2022
Student Name	Fathima D
Student Roll Number	917719D022
Maximum Marks	2 Marks

Question-1:

Write a python code for smart home application

Solution Code:

```
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); floattemp
= ( 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);  
}  
}
```



