ASSIGNMENT 1

PYHTON PROGRAMMING

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| Assignment Date | 19 September 2022 |
| Student Name | SWETHA K |
| Student Roll Number | 917719D134 |
| Maximum Marks | 2 Marks |

Quest no-1:

Write a python code for smart home application

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); 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);

