Assignment Date	19 September 2022
Student Name	BITU KUMAR
Student Roll Number	19EC010
Maximum Marks	2 Marks

Question-1:

Home Automation using TinkerCAD (Minimum 2 sensors)

Solution:

```
#define LED 9
#defin
e PIR
4 int
ldr=0;
int
pir=L0
W; int
val;
void setup()

  Serial.begin(96
  00);
  pinMode(LED,
  OUTPUT);
  pinMode(PIR,INP
  UT);

void loop()
```

```arduino
Sdn = ana logRead (A1) ;
val = map(ldr,
0,1023, 0,255);
val = val -
255;
pir =
digitalRead(
PIR);
Serial.prin
tln(ldr);
Serial.prin
tln(val);
Serial.prin
tln(pir);
if(pir==HIG
H){
    analogWrite(L
    ED,val);
    delay(250);
```

Schematic:

Light 0N Baaed on LOR and PIR