ASSIGNMENT-1

1) **Build a smart home in Thinkercad with 2 sensors, an Led, buzzer**

```
int led=13;
int PhotoDiode=2;
int pir=5;
int buzz=3;
void setup()
{
 pinMode(led,
 OUTPUT);
 pinMode(pir, INPUT);
        pinMode(PhotoDiode, INPUT_PULLUP);
}
void ledFunction(){
 if(digitalRead(PhotoDiode)==HIG
 H)
  {
  digitalWrite(led, HIGH);
      }
      else
      {
              digitalWrite(led, LOW);
      }
}
void buzzer(){
 if(digitalRead(pir)==HIG
 H)
  {
 analogWrite(10, random(255));

 tone(buzz,50);
 delay(2000);
      }
```

```
else
{
noTone(buzz);
```

```
    delay(2000);


  }}
void loop()
{
 ledFunction();
 Serial.print(pir);
 buzzer();


}
```