Assignment -1
Home Automation

Assignment Date	19 September 2022
Student Name	Ms. Gayathri V
Student Roll Number	9517201903044
Maximum Marks	2 Marks

Question-1:

Write program using python for home automation system in tinkercad.

Solution:

```
#include<Servo.h>
Servo s;
void setup()
{
 s.attach(3);
 Serial.begin(9600);
}
void loop()
{
 int a = digitalRead(4);
 Serial.println(a);
 s.write(0);
 if(a==1)
 {
  Serial.println("PERSON APPROACHING");
  Serial.println("DOOR OPENING");
  for(int i=0;i<=180;i++)
  {
   s.write(i);
   delay(100);
  }
  Serial.println("PERSON ENTERED");
  Serial.println("DOOR CLOSING");
  for(int i=180;i>=0;i--)
  {
   s.write(i);
   delay(100);
  }
 }
}
```

Output: