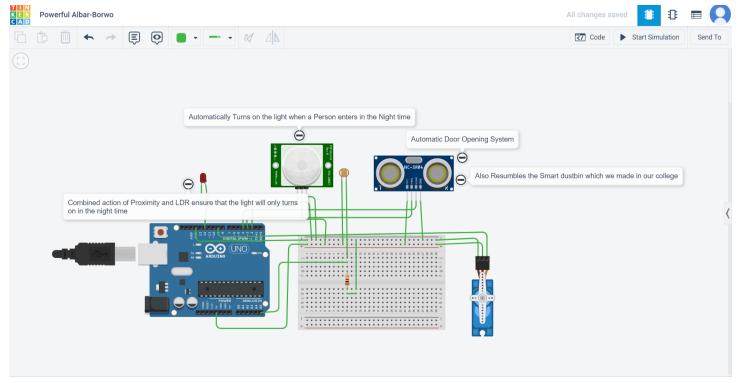
IOT Assignment Week-1

Smart Home Automation



```
Arduino Program
// C++ code
#include<Servo.h>
Servo servo;
int pr=A5,pir=2,led=12,trig=3,echo=4;
void setup()
 pinMode(pir,INPUT);
 pinMode(pr,INPUT);
 pinMode(led,OUTPUT);
 pinMode(trig,OUTPUT);
 pinMode(echo,INPUT);
 Serial.begin(9600);
 servo.attach(9);
}
void loop()
 int m=digitalRead(pir);
 int I=analogRead(pr);
```

IOT Assignment Week-1

```
Serial.println(l);
 if(m==1)
 {
  if(l<100)
   digitalWrite(led,HIGH); }
  else {
   digitalWrite(led,LOW); }
 digitalWrite(trig,0);
 digitalWrite(trig,1);
 delayMicroseconds(10);
 digitalWrite(trig,0);
 float dur=pulseIn(echo,HIGH);
 float dis=(dur*0.0343)/2;
 if(dis<50)
 {
  servo.write(90);}
 else{
  servo.write(0); }
}
```

Tinkercad Link:

https://www.tinkercad.com/things/8uhLjsAaf8J-powerful-albar-borwo/editel?sharecode=2LLLyS2Nh9TSslSxAMLGEUAn__JKvd-RoiQMYpFbVVA