

```

//motion sensor input
int input = 2;

Servo myServo;

int sensor = LOW;
int val = 0;
bool turn = false;
int led = 4;

void setup()
{
  myServo.attach(1);
  myServo.write(70);
  pinMode(input, INPUT );
  pinMode(led, OUTPUT);
  Serial.begin(9600);
}
void loop()
{

  val = digitalRead(input);

  //function 1 which opens the garage and stops it halfway
  if (val == HIGH && turn == false)
  {
    digitalWrite(led, HIGH);
    myServo.write(130);
    delay(1000);
    myServo.write(40);
    delay(7000);
    myServo.write(150);
    delay(2000);
    myServo.write(70);
    delay(200);
    digitalWrite(led, LOW);
    turn = !turn;
  }
  else if (val == HIGH && turn == true)
  {
    //function 2 which closes garage
    myServo.write(130);
    delay(3000);
    myServo.write(70);
  }
}

```

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    delay(200);  
    turn = !turn;  
  }  
  
}
```