Library

#include "Otto.h"

Object

Otto Otto

Servo definition:

```
#define PIN_YL 2 //servo[2]
#define PIN_YR 3 //servo[3]
#define PIN_RL 4 //servo[4]
#define PIN_RR 5 //servo[5]
```

Servo setup:

Otto.init(PIN_YL,PIN_YR,PIN_RL,PIN_RR,true);

Movements Parameters

int T=1000; //Initial duration of movement int moveld=0; //Number of movement int modeld=0; //Number of mode

int moveSize=15; //Associated with the height of some movements

Arrows

Functionality	Value	Function
Up	1	Otto.walk(1,1000,1)
Down	2	Otto.walk(1,T,-1)
Left	3	Otto.turn(1,T,1)
Right	4	Otto.turn(1,T,-1)
Pause	5	Otto.home()

Movements

Functionality	Value	Function
Ascending turn	6	Otto.ascendingTurn(1,T,moveSize)
Bend	7	Otto.bend(1,T,1)
Cursaito	8	Otto.crusaito(1,T,moveSize,1)
Flapping	9	Otto.flapping(1,T,moveSize,1)
Jitter	10	Otto.jitter(1,T,moveSize)
Jump	11	Otto.jump(1,T)
Shake Leg	12	Otto.shakeLeg(1,T,1)
Swing	13	Otto.swing(1,T,moveSize)
Tiptoe swing	14	Otto.tiptoeSwing(1,T,moveSize)
Up down	15	Otto.updown(1,T,moveSize)
Moonwalker	16	Otto.moonwalker(1,T,moveSize,1)

Arduino Code

```
/****************
 * File Name: Otto App.ino
 * Author : Bibek Poodar
 * Company : Curiosta Innovation Labs
#include <SoftwareSerial.h>
SoftwareSerial BTSerial(10, 11); // CONNECT BT RX PIN TO ARDUINO 11 PIN | CONNECT BT TX PIN TO
ARDUINO 10 PIN
#include "Otto.h"
Otto Otto;
 #define PIN_YL 2 //servo[2]
 #define PIN_YR 3 //servo[3]
 #define PIN_RL 4 //servo[4]
 #define PIN_RR 5 //servo[5]
//-- Movement parameters
int T=1000; //Initial duration of movement
int moveld=0; //Number of movement
int modeld=0; //Number of mode
int moveSize=15; //Asociated with the height of some movements
//-----
void setup()
 pinMode(9, OUTPUT); // this pin will pull the HC-05 pin 34 (key pin) HIGH to switch module to AT mode
 digitalWrite(9, HIGH);
 Serial.begin(9600);
 BTSerial.begin(38400); // HC-05 default speed in AT command more
Otto.init(PIN_YL,PIN_YR,PIN_RL,PIN_RR,true);
     Otto.home();
}
void loop()
 // Keep reading from HC-05 and send to Arduino Serial Monitor
if (BTSerial.available())
  {
  int x = BTSerial.read();
   Serial.println(x);
 switch (x){
   case 1: Serial.println("UP");
        Otto.walk(1,1000,1);
        break;
```

```
case 2: Serial.println("Down");
     Otto.walk(2,1300,-1);
     break:
case 3: Serial.println("Left");
     Otto.turn(1,1000,-1);
     break;
case 4: Serial.println("Right");
     Otto.turn(1,1000,-1);
     break;
case 5: Serial.println("Pause");
     Otto.home();
     break;
case 6: Serial.println("Ascending turn");
     Otto.ascendingTurn(1,T,moveSize);
     break;
case 7: Serial.println("bend");
     Otto.bend(1,T,1);
     break;
case 8: Serial.println("Cursaito");
     Otto.crusaito(1,T,moveSize,1);
     break;
case 9: Serial.println("Flapping");
     Otto.flapping(1,T,moveSize,1);
     break;
case 10: Serial.println("Jitter");
     Otto.jitter(1,T,moveSize);
     break;
case 11: Serial.println("Jump");
     Otto.jump(1,T);
     break;
case 12: Serial.println("Shake Leg");
     Otto.shakeLeg(1,T,1);
     break:
case 13: Serial.println("Swing");
     Otto.swing(1,T,moveSize);
     break;
case 14: Serial.println("Tip Toe Swing");
     Otto.tiptoeSwing(1,T,moveSize);
     break;
case 15: Serial.println("Up Down");
     Otto.updown(1,T,moveSize);
     break;
case 16: Serial.println("Moon Walker");
      Otto.moonwalker(1,T,moveSize,1);
```

break;