PROGRAM 12 : IR BASED SERVO MOTOR

Aim: Design IR based servo motor controller

Hardware Required : Arduino UNO, breadboard, IR sensor, IR Remote, Micro Servo.

Code :

```
#include <Servo.h>
#include <IRemote.h>
int RECV_PIN = 11;
IRrecv irrecv (RECV_PIN);
decode-results results;
Servo myservo;
void setup () {
    Serial.begin (9600);
    irrecv.enableIRIn ();  }

void loop() {
    if (irrecv.decode(&results))
    {
        switch (results.value)
        {
            case OXFD00FF :
                myservo.attach (9);
                Serial.println ("start");
                break;
            case OXFD609F :
                myservo.write(360);
                Serial.println ("Clockwise");
                break;
            case OXFD20DF :
                myservo.write (-360);
```

```
Serial.write(0)
Serial.println ("counter clockwise");
break;

default:
    Serial.print ("unrecognized code recieved = 0x");
    Serial.println (results.value, HEX);
    break; }

irrecv.resume();  }
                }
```