# Program no 14

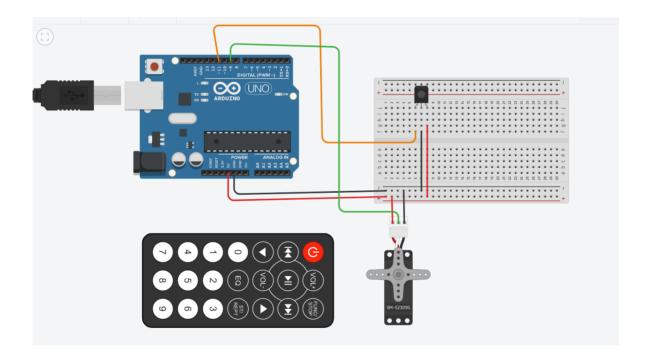
# Program Title servo motor controller

**Aim :** To rotate the servo motor in clockwise and counter clockwise

### **Hardware Required**

- Arduino Board
- Bread board
- Wires
- IR remote
- IR sensor
- microservo

### **Circuit Diagram**



### Writeup:

```
Poogram No-14
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                                              Roumad DN
                                             1BM119CS405
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= H9ndule ( Reenofe. h)
Ent RECV-PIN=11;
  1 Prew Porecy (RECV_PIN);
    devode-seguitz ( ese seguits;
    Servio my leavos,
    ilogal letap();
          Selval. pegin (9600);
Brocv. enable Rin (1)
  Void loop()
      Ph (new.devode (fregulta))
             Swetch (signiff value)
               Cale 0xFD00FF:
                 nyservo. attech (9);
Serral. prentha ("Steet");
                 break;
```

```
call 0x +0 609F;
           rygervo. waste (360);
            Serial-printly ("dakwies);
    beeak;
         nygernouxite (-360);
Seeral. phille ("Coorter clockwers);
Call OX FD200F;
   break;
 default: Restal. prentlu ("Unserguered code: 0x");
    break,
    Plecer. reporte();
```

```
#include <Servo.h>
#include <IRremote.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 0xFD00FF:
      myservo.attach(9);
      Serial.println("Start");
    break;
   case 0xFD609F:
      myservo.write(360);
      Serial.println("clockwise");
   break;
   case 0xFD20DF:
      myservo.write(-360);
      Serial.println("Counter clock wise");
```

```
break;
default:
    Serial.print("Unrcognized code: 0x");
break;
}
irrecv.resume();
}
```

#### **Observation / Output**

