Program No. – 13

Program Title – IR based SERVO Motor controller

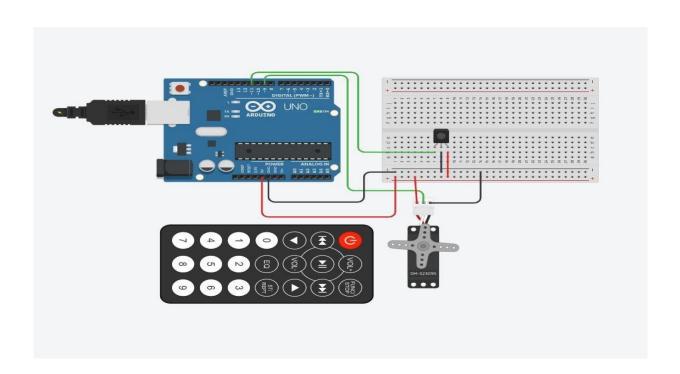
# AIM

Design IR based SERVO Motor controller. (Clockwise and CounterClockwise rotation of shaft).

# HARDWARES REQUIRED

- Arduino Board,
- Breadboard Small,
- IR Sensor,
- IR Remote,
- Micro Servo

# **CIRCUIT DIAGRAM**



# **WRITE-UP**

PDF

# **CODE**

```
#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
             Clockwise");
     break;
   default:
    Serial.print("Unrecognized code received: 0x");
    Serial.println(results.value, HEX);
     break;
 }
 irrecv.resume();
}
```

}

# **OUTPUT**

# Serial Monitor

Starting.. Clockwise.. Clockwise.. Counter Clockwise.. Counter Clockwise.. Unrecognized code received: 0xFD48B7