Shiva Praneeth Kodali

Program No. – 13

Program Title – IR based SERVO Motor controller

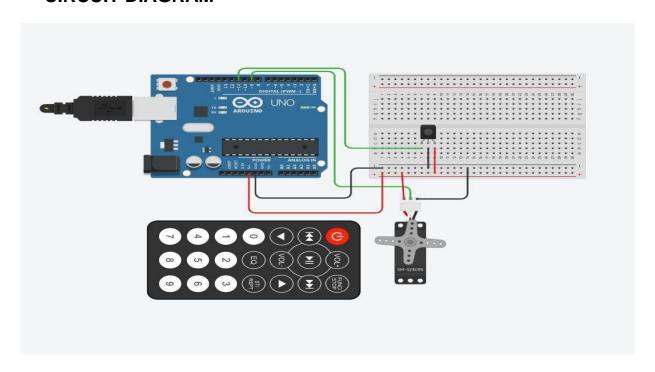
### **AIM**

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**



## 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("CounterClockwise");
     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