

Name – TANYA MISHRA

Program No. – 13

Program Title – IR based SERVO Motor controller

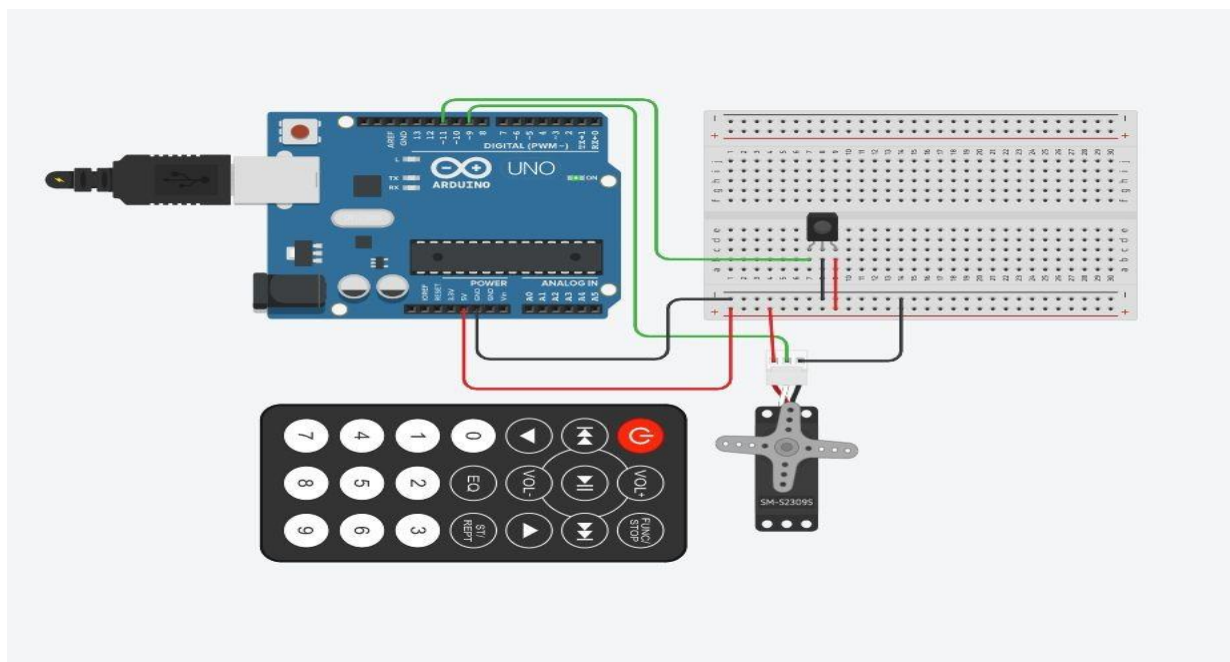
AIM

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

A screenshot of a 'Serial Monitor' window. The title bar is light gray and contains a small icon of a terminal window followed by the text 'Serial Monitor'. The main area of the window is white and contains a series of text lines in a monospaced font. The text is as follows:

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