

IOT LAB - 5th Sem

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Program No : 14

Program Title : IR based SERVO Motor Controller

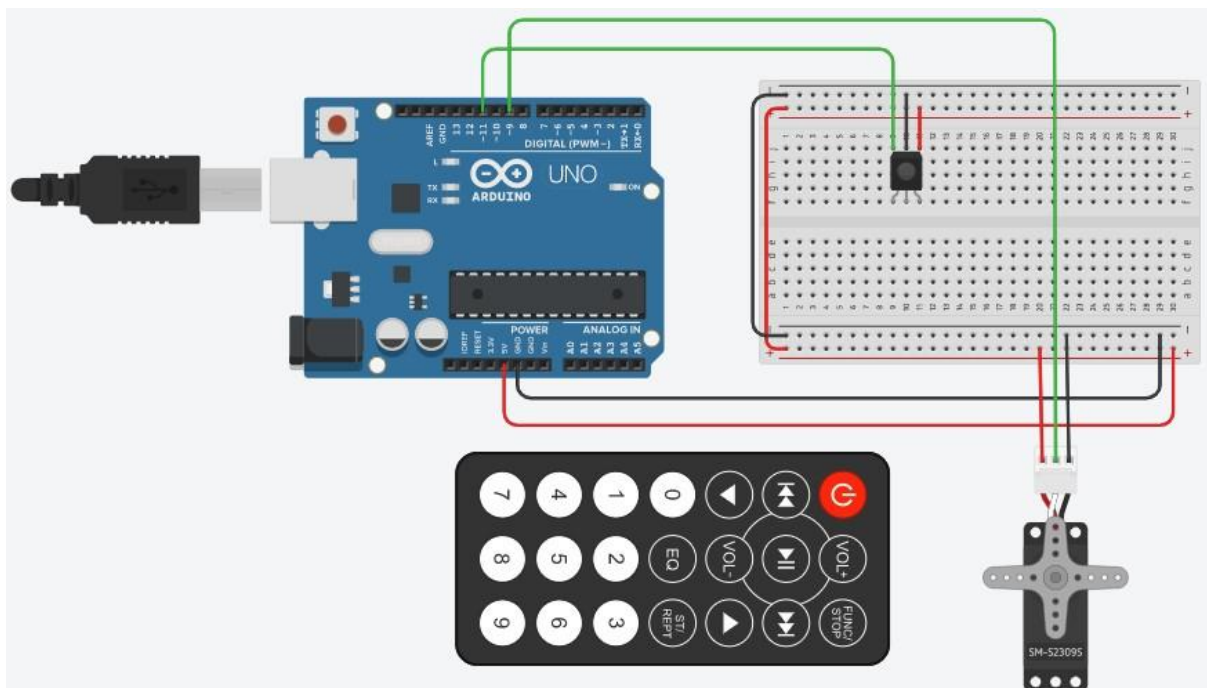
Aim :

To design IR based SERVO motor controller (Clockwise and Counter) using an Arduino Uno board.

Hardware Required :

- Arduino Uno Board
- IR Sensor
- IR Remote
- Micro Servo

Circuit Diagram :



Written Code :

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```
#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 0xFDA05F:
        myservo.write(-360);
        Serial.println("Counter Clockwise");
        break;

      case 0xFDA05F:
        myservo.attach(7);
        Serial.println("Stop");
        break;
    }
    irrecv.resume();
  }
}
```

Observation /Output :

The Servo motor turns clockwise and counter clockwise upon detection of IR signal from the remote.

