

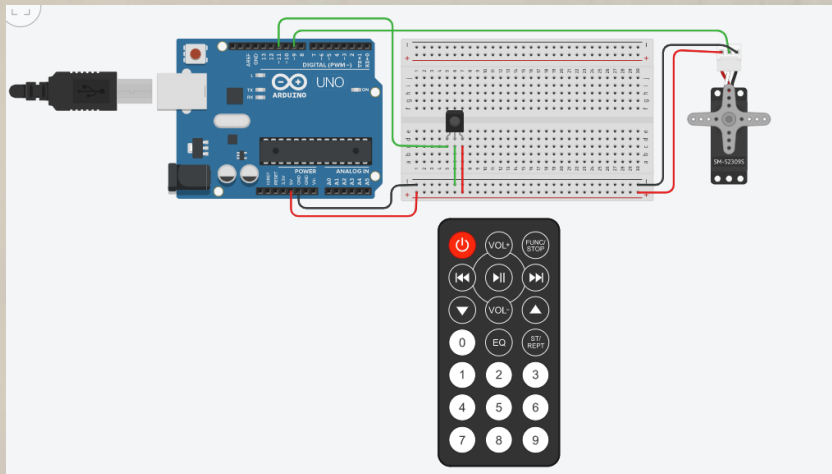
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## PROGRAM-14

Title: IR Based Servo Motor Controller:

Aim: To rotate the servo motor with the help of a remote. (IR remote, sensor, servo motor)

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 (irrecr.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 ");
        Serial.println(results.value, HEX);
    }
    irrecr.resume();
  }
}

```

Observations / Conclusion:

The servo motors rotate clockwise and anticlockwise with the input given by the remote.