# Program no 14

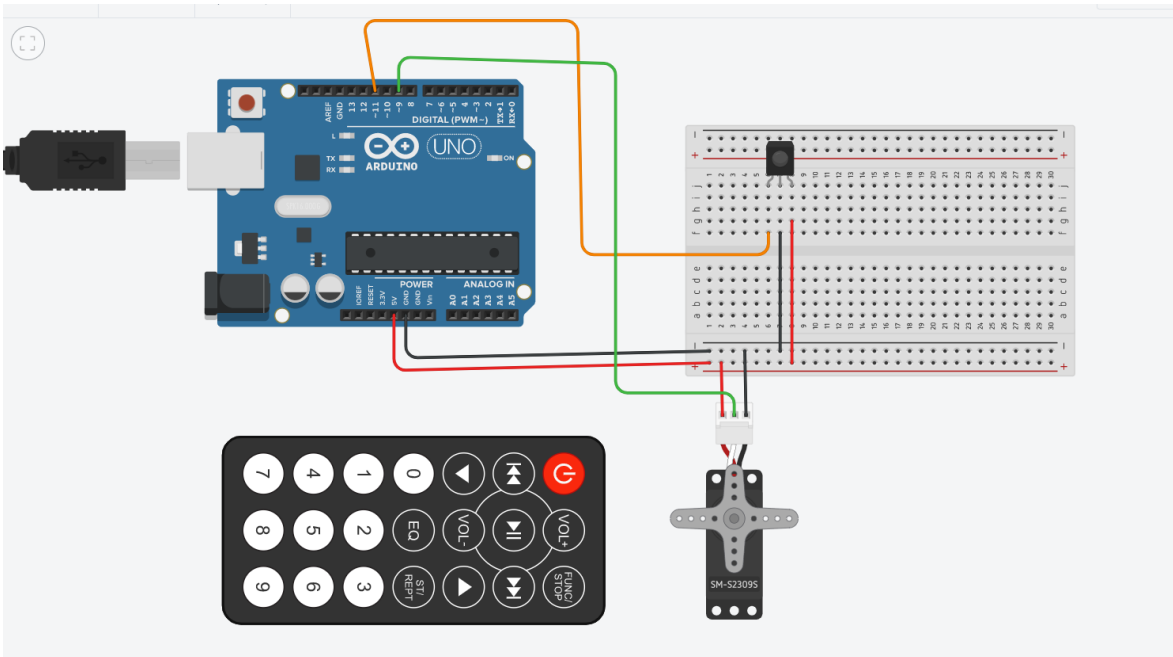
# Program Title servo motor controller

**Aim :** To rotate the servo motor in clockwise and counter clockwise

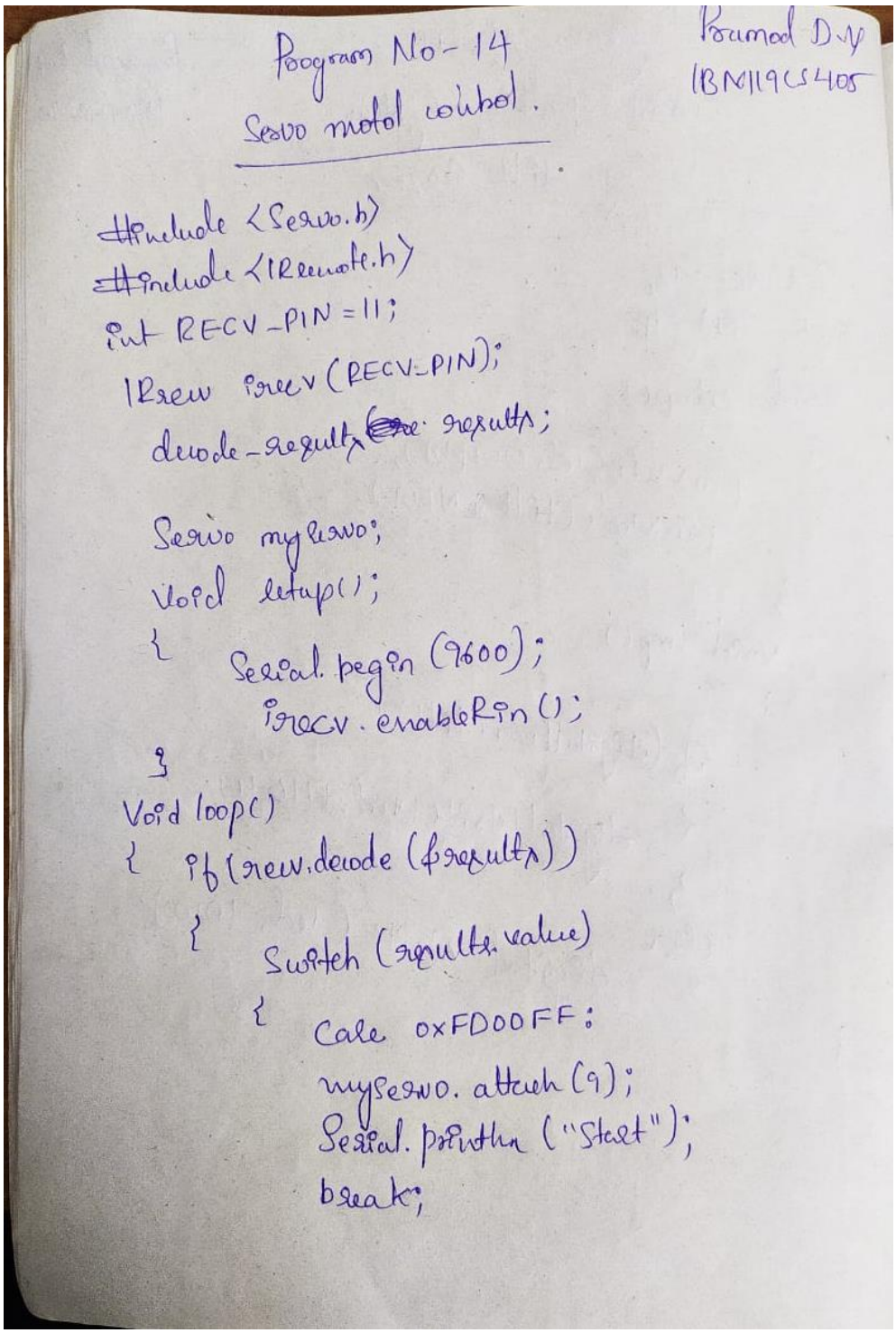
**Hardware Required**

- Arduino Board
- Bread board
- Wires
- IR remote
- IR sensor
- microservo

**Circuit Diagram**



**Writeup :**



Program No - 14
Servo motol control.

Pramod D.V
1BM19CS405

```
#include <Servo.h>
#include <IRremote.h>
int RECV_PIN = 11;
IRrecv irecv(RECV_PIN);
decode_results results;

Servo myservo;
void setup();
{
    Serial.begin(9600);
    irecv.enableIRin();
}
Void loop()
{ if(irecv.decode(&results))
  {
    Switch (results.value)
    {
      Cale 0xFD00FF:
      myservo.attach(9);
      Serial.println("Start");
      break;
```

```
Case 0XFD609F:
        myservo.write (360);
        Serial.println ("clockwise");
    break;
Case 0XFD200F:
        myservo.write (-360);
        Serial.println ("Counter clockwise");
    break;
default: Serial.println("Unrecognized code :0x");
    break;
  }
  irrecv.resume();
 }
}
```

**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 clock wise");
```

```
      break;
      default:
          Serial.print("Unrcognized code: 0x");
       break;
          }
     irecv.resume();
   }
}
```

**Observation /Output**