IOT LAB - 5th Sem

Name: Sayed Ayman Bukhari, USN: 1BM18CS095

Program No: 14

Program Title: IR based SERVO Motor Controller

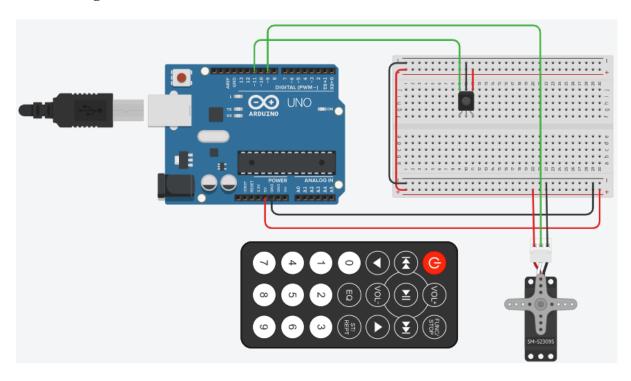
Aim:

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:

```
Tor LAB-14
#include < Seavo. h>
# include < I Remote. h>
 int RECV_PIN = 11;
  TRACCO iMECV (RECV_PIN).
  decode - results results.
  Servo myservo.
 Void setup ()
   Serial begin (9600).
     ith ecv. enable IR In ();
 void loop ()
   if (inhere. decode (& nesults))
         Switch ( Aesults. value )
        E case OxFDOOFF:
             myservo. attach (9).
              Serial print In ("start")
              break.
           case 0xFD 609F:
              nyservo, write (360).
              Social . println (" clockwise").
               break
```

```
Case Ox FDAOSF:

nysouro. White (-360).

Serial Phintlu ("Counter Clockwise").

break;

Ox FDAOSF!

nysouro. attach (7).

Schial Phintlu ("Stop");

break;

q

ihrecv. resume ();

q
```

Observation / Output:

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