## IOT Lab - 5th Sem

Name: Rajath MK, USN: 1BM18CS079

Program No: 12, Week: 6

**Program Title: IR based SERVO motor controller** 

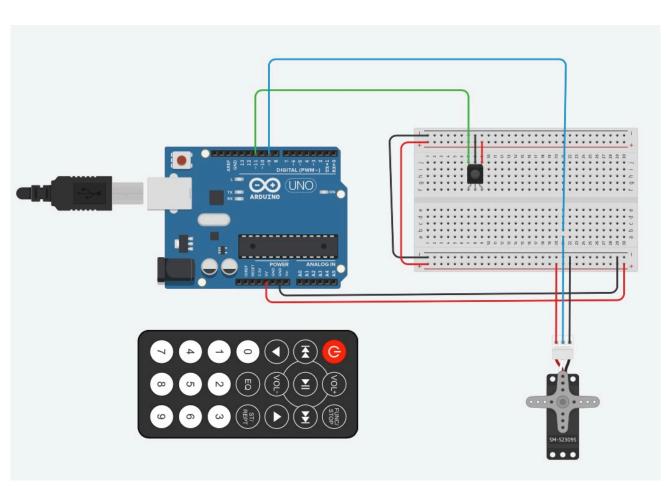
### Aim:

Design IR based SERVO Motor controller. (Clockwise and CounterClockwise rotation of shaft).

## Hardware Required:

- Arduino Uno Board
- Breadboard
- IR Remote
- IR Sensor
- Micro Servo
- Jump wires

# **Circuit Diagram:**



#### **Written Code:**

```
Rajath. M.K
IBM IRCS079
 Week 6, Prog 12
TR.
# Include (servo. n)
# include (TRIEMITE. 6)
                                         Case 0 x F F 609F:
int REEV- PW= 11
                                           my servo-write(-360);
Threevairecu(RECV-PIN);
                                           Spiol println ("cc");
Lecale- Posults regults;
                                        default:
Serial. Print ("un racognized");
3
Serve myservo;
Void setup (75
                                        irrecv. resume ();
   Serial . begin (9600);
   irrecv. enable IR In ().
void logo ()5
     If ( i recv. decode ( & result))
           Switch (results. Value) }
                 case OxFDOOF:
                     my servo. attach (a)
                    serial. print (n("start");
                    break;
                case OxF0609Fi
                      Servo · write (360);
                      Serial - printlnl "Clockwise"):
                      Greak :
```

## **Observation / Output:**

The Servo motor rotated Clockwise/Counter upon detection of IR signal by the sensor provided by the remote.