Sakshi Srivastava

1BM18CS090

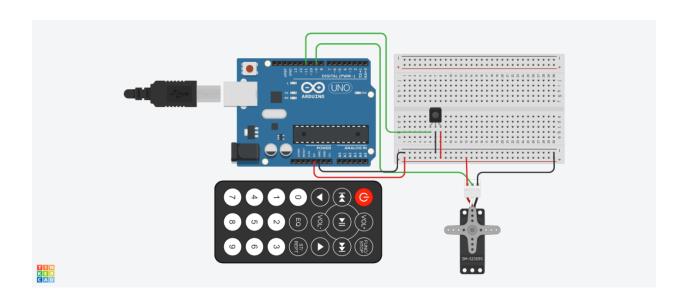
PROGRAM TITLE: IR REMOTE

Aim: DESIGN IR based SERVO MOTOR controller (Clockwise and counterclockwise Rotation of shaft)

Hardware Required:

- IR remote
- IR sensor
- Micro Servo
- Breadboard
- Arduino UNO

Circuit Diagram:



Write-Up:

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Aire Derign Ik based SERVO Hoter controller. (Hockwise and Countir Hockwise rotation of shaft)	void loop () 2 if (linear decode (lassuts))
Hardware Requirel:- Arduins Board	switch (results, value)
-> Breadboard Nicro Suno	care 0xFD80FF: myservo.alaer(a). Serval.println("8loor");
J IR Sensor	case OXFD 609F:
Co de :-	Seval, printly (" crockwari")
# unclude (Selvo, h) # unclude (Ikremote, h)	case OXFD2ODF;
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devode-rinus, remits	default:
Suro myuno;	Send puitter (rosult value, HEX);
void setup() ¿ Serial legni (9600); where enable IKIn();	wiew. resume ();
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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 Clockwise");
    break;
   default:
    Serial.print("Unrecognized code received: 0x");
    Serial.println(results.value, HEX);
    break;
  }
```

```
irrecv.resume();
}
}
```

Output/Observation:

Start
Counter Clockwise
Clockwise
Unrecognized code received:
0xFFFFFFFF