Program no: 14

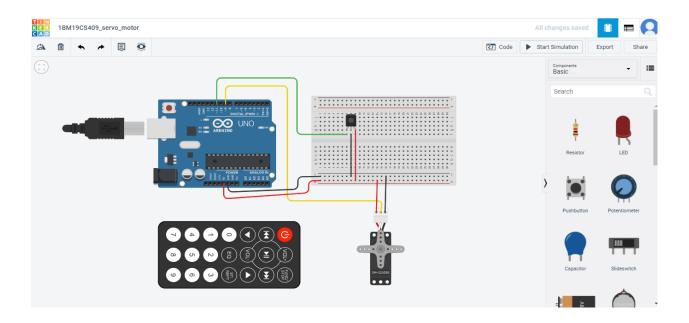
Program Title: Servo motor controller

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

Hardware Required

- Arduino Board
- Wires
- Breadboard
- Resistor
- IR sensor
- IR remote
- Micro servo

Circuit Diagram:



Code:

```
Sundata Aloy
                18M19C5409
     Bervo motor controller
# nolude < Servo. h7
# include < IR senote. h >
ent Recv-Pen = 11;
IR recv green (Recv_Pin);
decode - results results;
Servo my Servo;
Void Setup ()
  Sexial. begin (9600);
 "(88ecV. enable IRIn():
void bop()
  if (ixxecv. de code (&xesults))
   Switch (results value)
     Call 0x1=000 FF;
Myeno. attach (q);
```

	Proper No.
	Sesial. Printer (" start");
	bycalc;
	core 0xFD609F:
	myservo. woite (360);
	Sexial. Printin ("csockwise");
	break;
	case oxf020DF:
	Myres vo. Waite (-360);
	Sexial Printo ("(anter clockwise");
	break;
	default:
	Sexial. Print ("unrecognized code
	xeceived: ox");
	Sexial. Printo (sesutts. Value, MEX);
	break
)
	issec. resume();
	}
)
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#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();
}
```

Observation / Output:

