Program no : 14

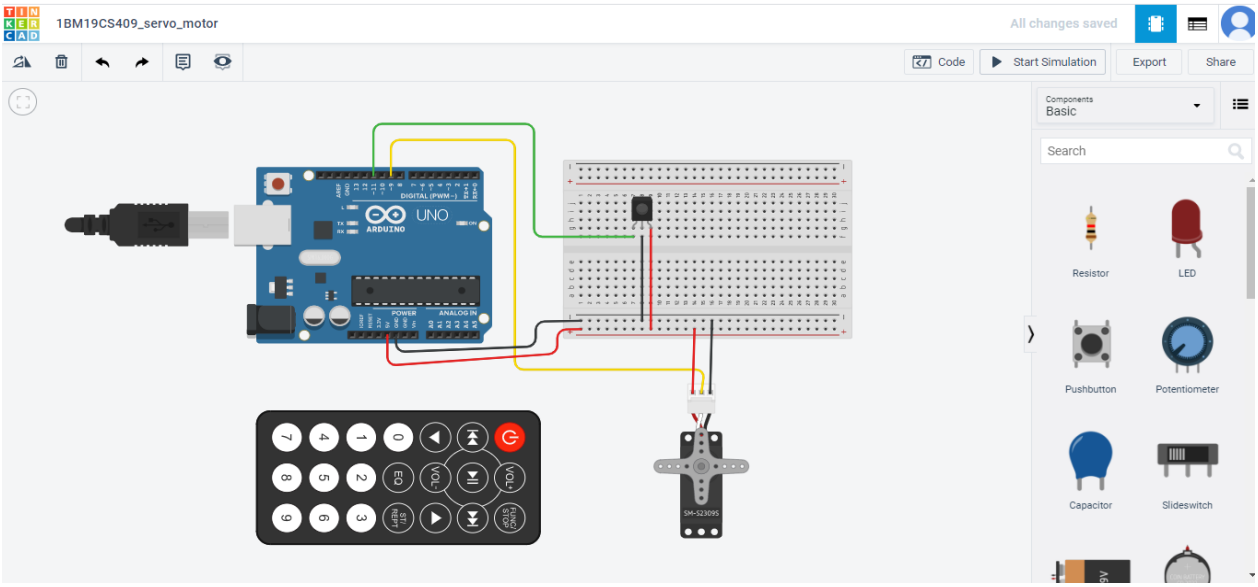
Program Title : Servo motor controller

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

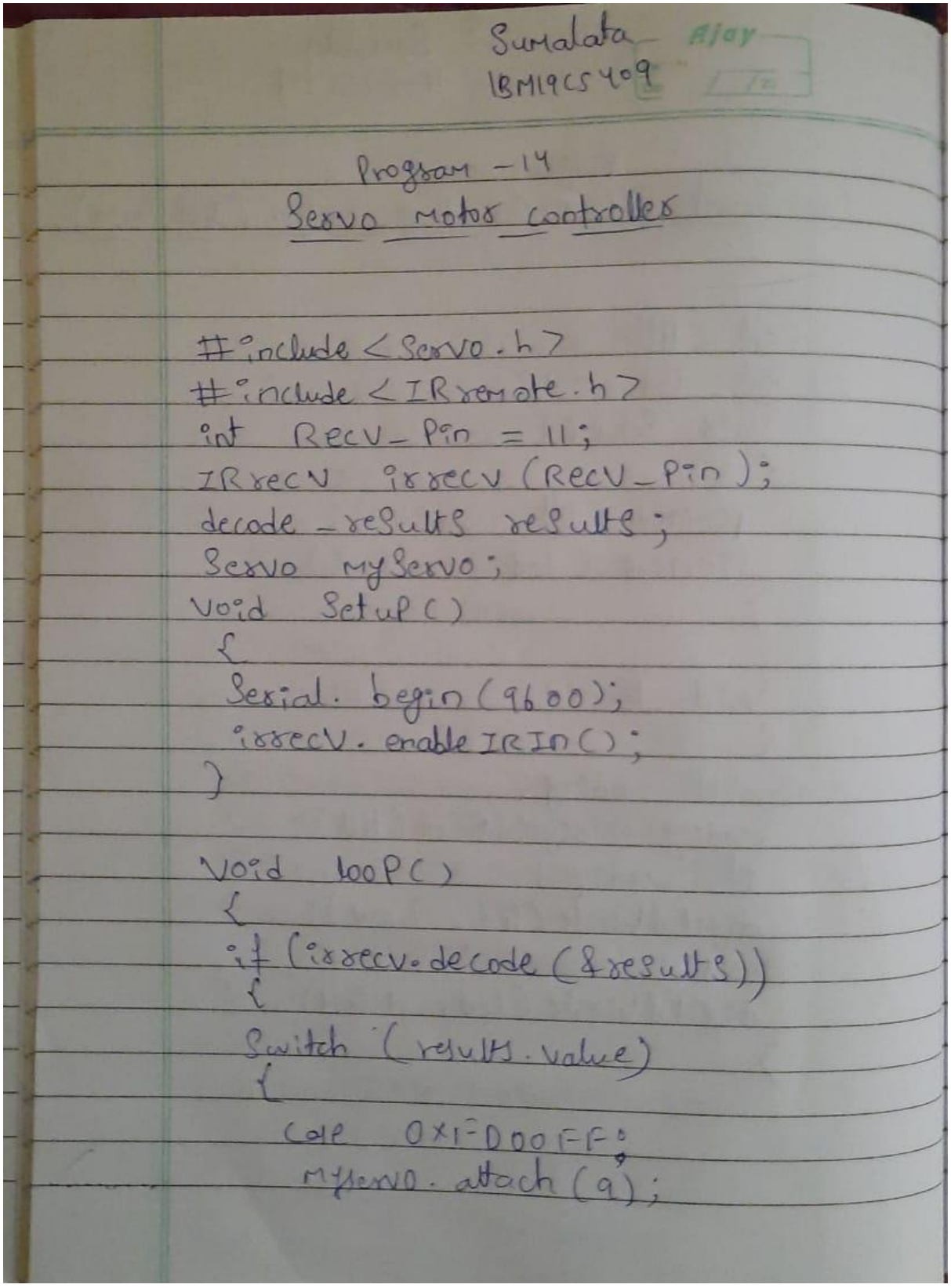
Hardware Required

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

Circuit Diagram :



Code:

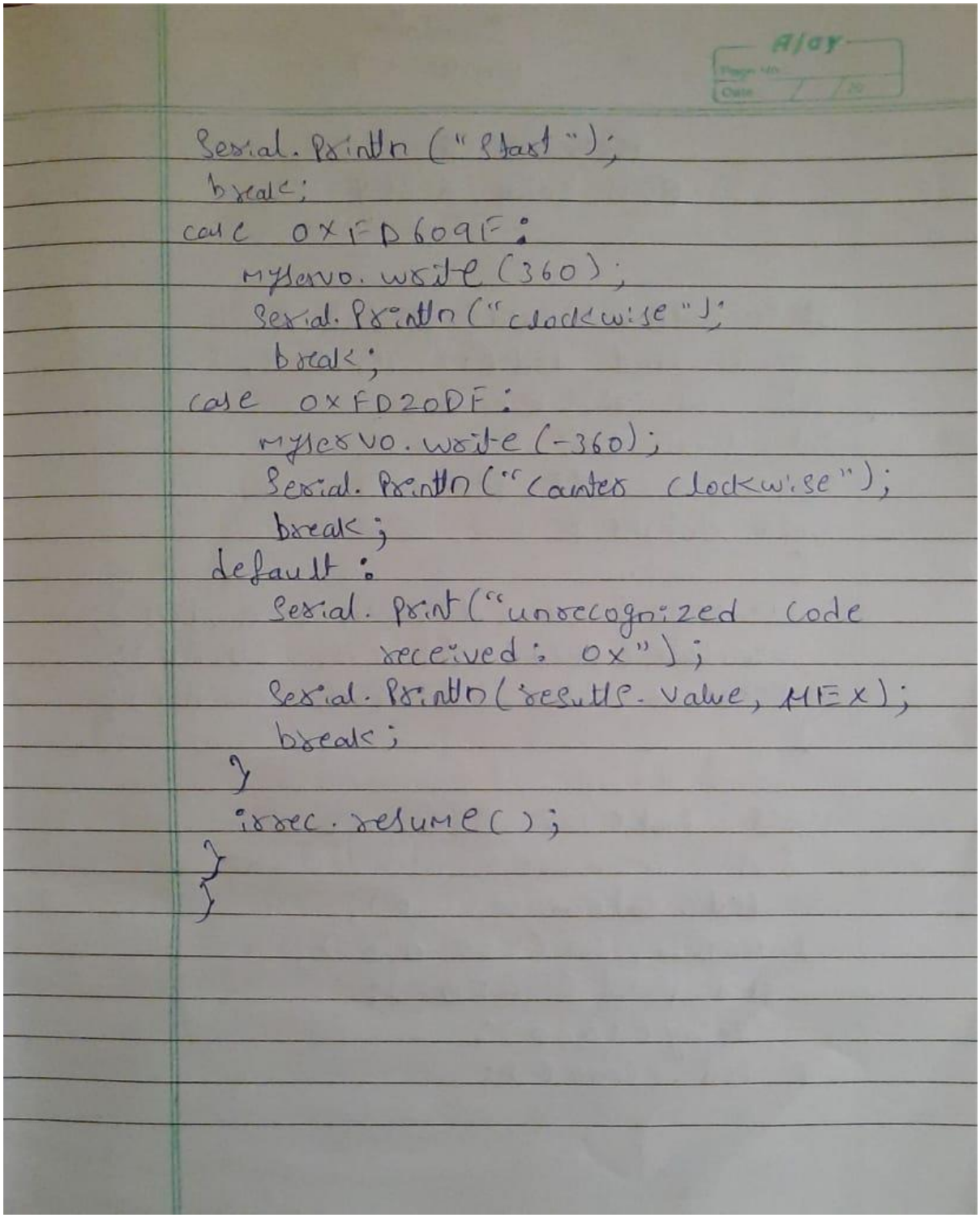


Sumalata
IBM19CS409

Program - 14
Servo motor controller

```
#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)
   {
    Cale 0X1-D00F-F:
    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;
}
irrec.resume();
}
}
```

```
#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 :