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PROGRAM No. = 13

PROGRAM TITLE = IR based Servo Motor Controller.

AIM: Design IR based servo motor controller. (Clockwise and Counter Clockwise rotation of shaft).

Hardware Required.

- Arduino Board
- Breadboard
- IR Sensor
- IR Remote
- Micro Servo

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();
```

```
}
```

Teacher's Signature : _____

```
void loop()
```

```
{
```

```
  if (i2cscr.decode(&results)) {
```

```
    switch (results.value)
```

```
    {
```

```
      case 0xFD00FF :
```

```
        myservo.attach(9);
```

```
        Serial.println("start...");
```

```
        break;
```

```
      case 0xFD20DF :
```

```
        myservo.write(-360);
```

```
        Serial.println("Counter Clockwise");
```

```
        break;
```

```
      case default :
```

```
        Serial.print("Unrecognized code received : 0x");
```

```
        Serial.println(results.value, HEX);
```

```
        break;
```

```
    }
```

```
    i2cscr.resume();
```

```
  }
```

```
}
```

