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IBM18CS100

Programme 13

Program Title :- IR based SERVO Motor controller

Aim:- Design IR based SERVO motor controller
[Clockwise & anti clockwise rotation of shaft]

Hardware Required :-

Arduino Board
Bread board
IR sensor
IR remote
miro Servo

Code:-

```
#include <servo.h>
# include <IRremote.h>
int   RECV_PIN = 11;
IRrcv.irrecv( RECV_PIN);
decode_results results;

servo myservo;

void setup()
    {
      Serial.begin (9600);
       irrecv.enableIRh( );

    }

Void loop()
    {
      if (irrecv. decode(&result))
        {
```

```cpp
switch (results.value)
{
    case 0x FD00FF;

        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 ();

}

}
```