Shaan Subbaiah B C - 1BM18CS096

Program no – 15

Program Title – Controlling a Servo with an IR remote and reciever

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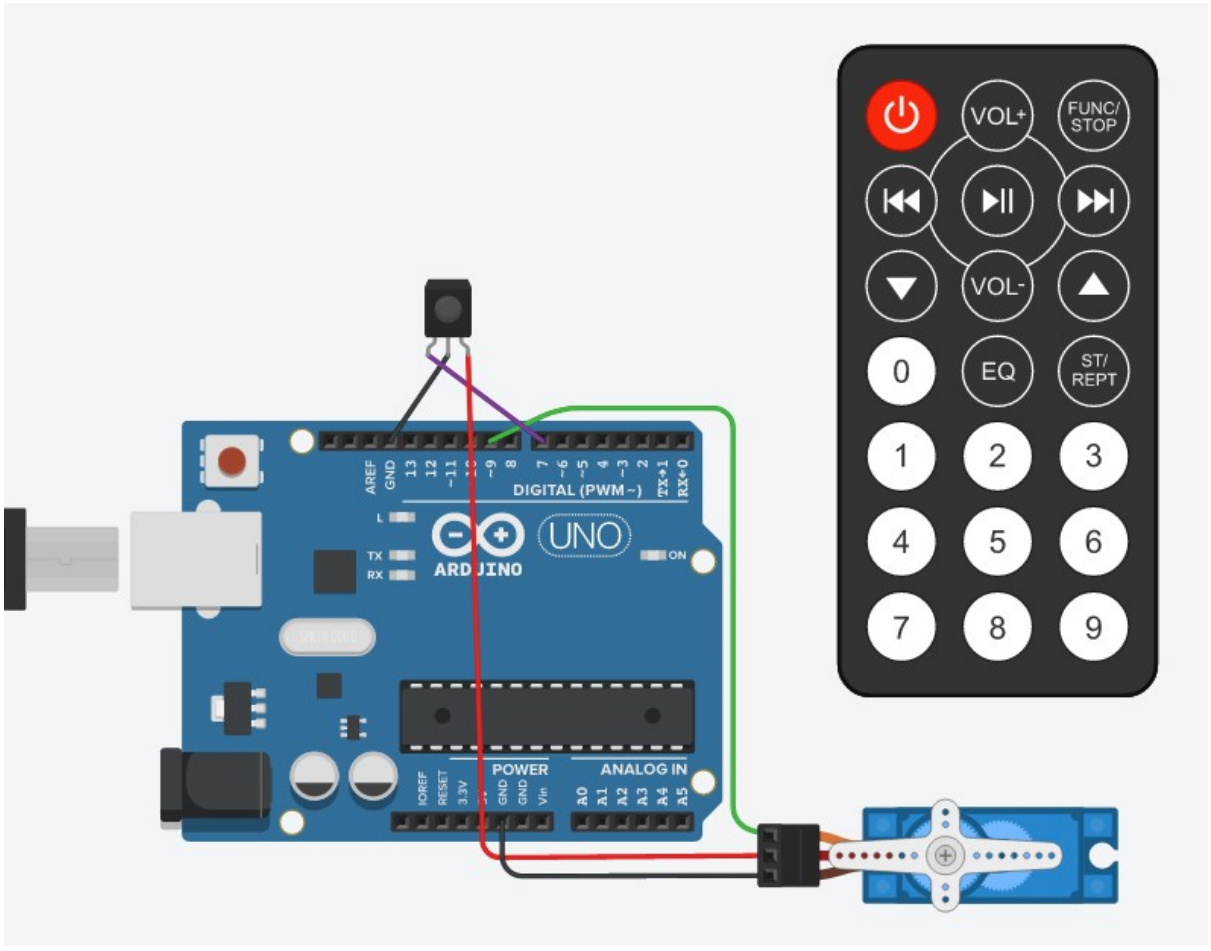
Aim

Switch colors using the rgb led, display the current color in the lcd display.

Hardware Required

- Arduino Board
- IR reciver, IR remote
- Servo

Circuit Diagram



Code:

```
#include <Servo.h>
#include <IRremote.h>

// setup servo pin, initializae pos
int pos = 0;
Servo servo_9;

// setup ir reciever
int ir_in = 7;
IRrecv irrecv(ir_in);
decode_results results;

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

 servo_9.attach(9);
 Serial.println("Enabled Servo");
 irrecv.enableIRIn();
 Serial.println("Enabled IRin");
}

void loop()
{
 if (irrecv.decode(&results)) {
  switch (results.value){
   case 0xFD609F:
                servo_9.write(360);
                Serial.println("Clockwise");
    break;
   case 0xFD20DF:
                servo_9.write(-360);
                Serial.println("Counter Clockwise");
    break;
   default:
    Serial.print("Use only << or >>");
    break;
  }
  irrecv.resume();
 }
}
```

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```

Observation /Output

Servo moves left and reight when respective buttons are pressed on the IR Remote