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//Written By Nikodem Bartnik - nikodembartnik.pl
#define STEPPER_PIN_1 9
#define STEPPER_PIN_2 10
#define STEPPER_PIN_3 11
#define STEPPER_PIN_4 12
int step_number = 3;
void setup() {
pinMode(STEPPER_PIN_1, OUTPUT);
pinMode(STEPPER_PIN_2, OUTPUT);
pinMode(STEPPER_PIN_3, OUTPUT);
pinMode(STEPPER_PIN_4, OUTPUT);

}

void loop() {

    OneStep(true);
    delay(2);

}

void OneStep(bool dir){
    if(dir){
switch(step_number){
    case 0:
digitalWrite(STEPPER_PIN_1, HIGH);
digitalWrite(STEPPER_PIN_2, LOW);
digitalWrite(STEPPER_PIN_3, LOW);
digitalWrite(STEPPER_PIN_4, LOW);
break;
    case 1:
digitalWrite(STEPPER_PIN_1, LOW);
digitalWrite(STEPPER_PIN_2, HIGH);
digitalWrite(STEPPER_PIN_3, LOW);
digitalWrite(STEPPER_PIN_4, LOW);
break;
    case 2:
digitalWrite(STEPPER_PIN_1, LOW);
digitalWrite(STEPPER_PIN_2, LOW);
digitalWrite(STEPPER_PIN_3, HIGH);
digitalWrite(STEPPER_PIN_4, LOW);
break;
    case 3:
digitalWrite(STEPPER_PIN_1, LOW);
digitalWrite(STEPPER_PIN_2, LOW);
digitalWrite(STEPPER_PIN_3, LOW);
digitalWrite(STEPPER_PIN_4, HIGH);
break;
}
}
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}else{
  switch(step_number){
  case 0:
    digitalWrite(STEPPER_PIN_1, LOW);
    digitalWrite(STEPPER_PIN_2, LOW);
    digitalWrite(STEPPER_PIN_3, LOW);
    digitalWrite(STEPPER_PIN_4, HIGH);
    break;
  case 1:
    digitalWrite(STEPPER_PIN_1, LOW);
    digitalWrite(STEPPER_PIN_2, LOW);
    digitalWrite(STEPPER_PIN_3, HIGH);
    digitalWrite(STEPPER_PIN_4, LOW);
    break;
  case 2:
    digitalWrite(STEPPER_PIN_1, LOW);
    digitalWrite(STEPPER_PIN_2, HIGH);
    digitalWrite(STEPPER_PIN_3, LOW);
    digitalWrite(STEPPER_PIN_4, LOW);
    break;
  case 3:
    digitalWrite(STEPPER_PIN_1, HIGH);
    digitalWrite(STEPPER_PIN_2, LOW);
    digitalWrite(STEPPER_PIN_3, LOW);
    digitalWrite(STEPPER_PIN_4, LOW);

  }
  }
step_number++;
  if(step_number > 3){
    step_number = 0;
  }
}
```