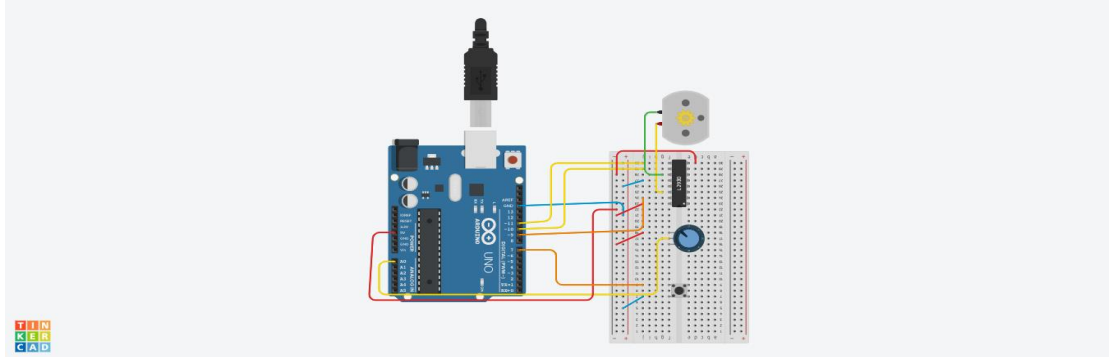


# التحكم باتجاه وسرعة دوران محرك

## DC motor



Codes:

```
int enablePin = 11;

int in1Pin = 10;

int in2Pin = 9;

int switchPin = 7;

int potPin = 0;

void setup()
{
    pinMode(in1Pin, OUTPUT);
    pinMode(in2Pin, OUTPUT);
    pinMode(enablePin, OUTPUT);
    pinMode(switchPin, INPUT_PULLUP);
}

void loop()
{
    int speed = analogRead(potPin) / 4;
    boolean reverse = digitalRead(switchPin);
    setMotor(speed, reverse);
}

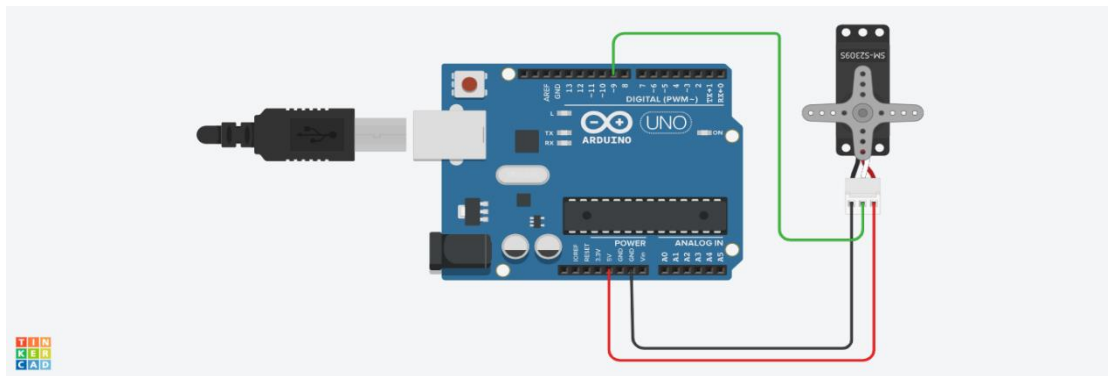
void setMotor(int speed, boolean reverse)
{

```

```
analogWrite(enablePin, speed);  
digitalWrite(in1Pin, ! reverse);  
digitalWrite(in2Pin, reverse);  
}
```

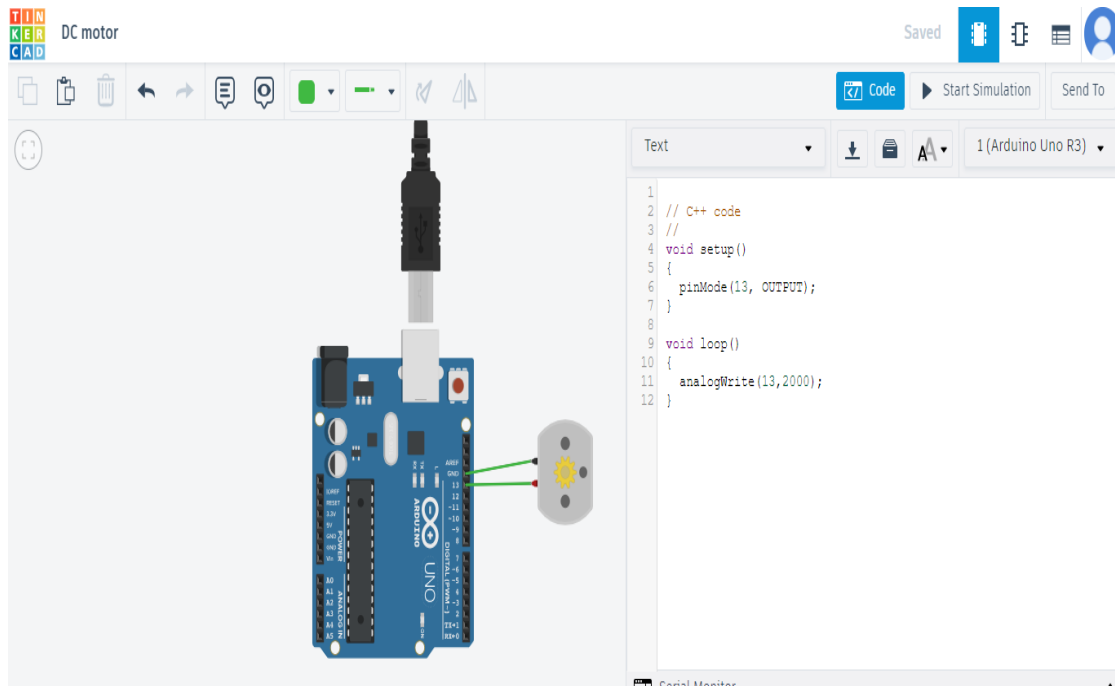
## برمجه وتصميم دائرة

### Servo motor



#### Codes:

```
Servo myservo;  
int pos = 0;  
void setup () {  
  myservo.attach (9);  
}  
void loop () {  
  for (pos = 0; pos <= 180; pos += 1) {  
    myservo.write(pos) ;  
    delay (15) ;  
  }  
  for (pos = 180; pos >= 0; pos -= 1) {  
    myservo.write (pos) ;  
    delay (15) ;  
  }  
}
```



Codes:

```
//C++ code
//
void setup()
{
  pinMode(13, OUTPUT);
}
void loop()
{
  analogWrite(13,2000)
}
```