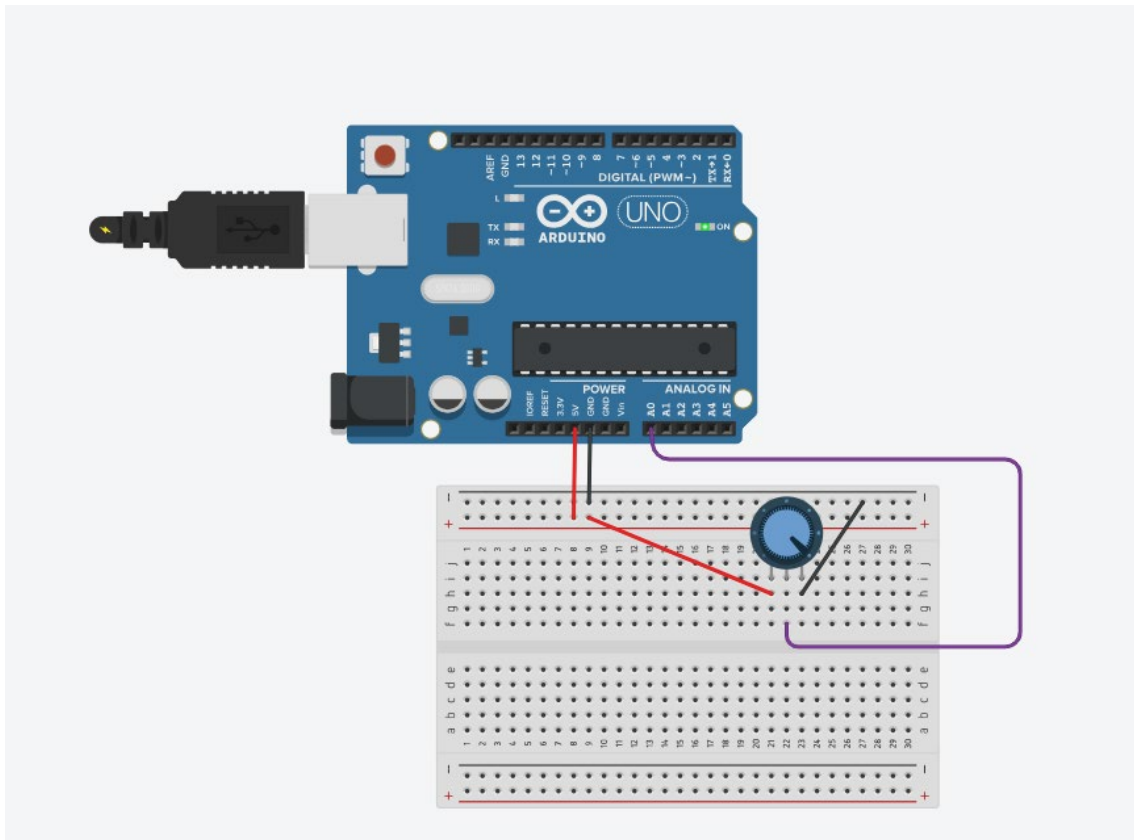


Monte o seguinte circuito no Arduino



Compile o seguinte código via Arduino ide

```
/*
```

```
  AnalogReadSerial
```

Reads an analog input on pin 0, prints the result to the Serial Monitor.

Graphical representation is available using Serial Plotter (Tools > Serial Plotter menu).

Attach the center pin of a potentiometer to pin A0, and the outside pins to +5V and ground.

This example code is in the public domain.

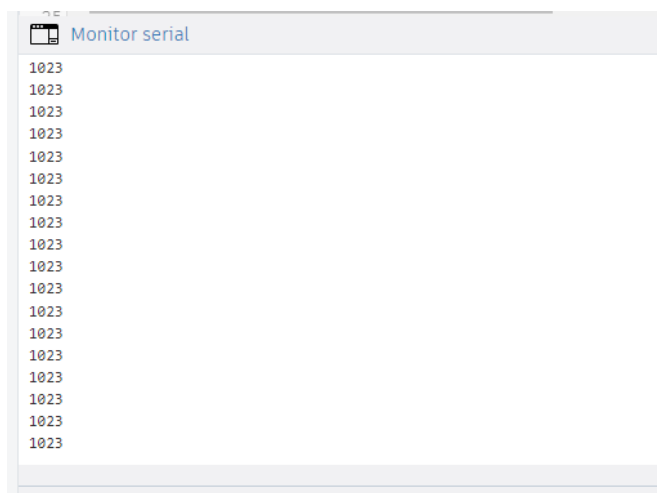
<https://www.arduino.cc/en/Tutorial/BuiltInExamples/AnalogReadSerial>

```
*/
```

```
// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);
}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int sensorValue = analogRead(A0);
  // print out the value you read:
  Serial.println(sensorValue);
  delay(1); // delay in between reads for stability
}
```

VERIFIQUE O MONITOR SERIAL



CRIE O SEGUINTE CÓDIGO E SALVE COM A EXTENSÃO .ps1

```
$portaSerial = New-Object System.IO.Ports.SerialPort COM30,9600,None,8,one
```

```
$portaSerial.Open()
```

```
$arquivo = "dados_serial.txt"
```

```
try {
```

```
    while ($true) {
```

```
        if ($portaSerial.BytesToRead -gt 0) {
```

```
            $dados = $portaSerial.ReadLine()
```

```
            Write-Host "Lido: $dados"
```

```
            Set-Content -Path $arquivo -Value $dados
```

```
        }
```

```
    }
```

```
}
```

```
finally {
```

```
    $portaSerial.Close()
```

```
}
```

OBS: Verifique em qual porta serial seu arduíno está (EX: COM1,COM2)

Não se esquecendo de fechar o Arduino Ide

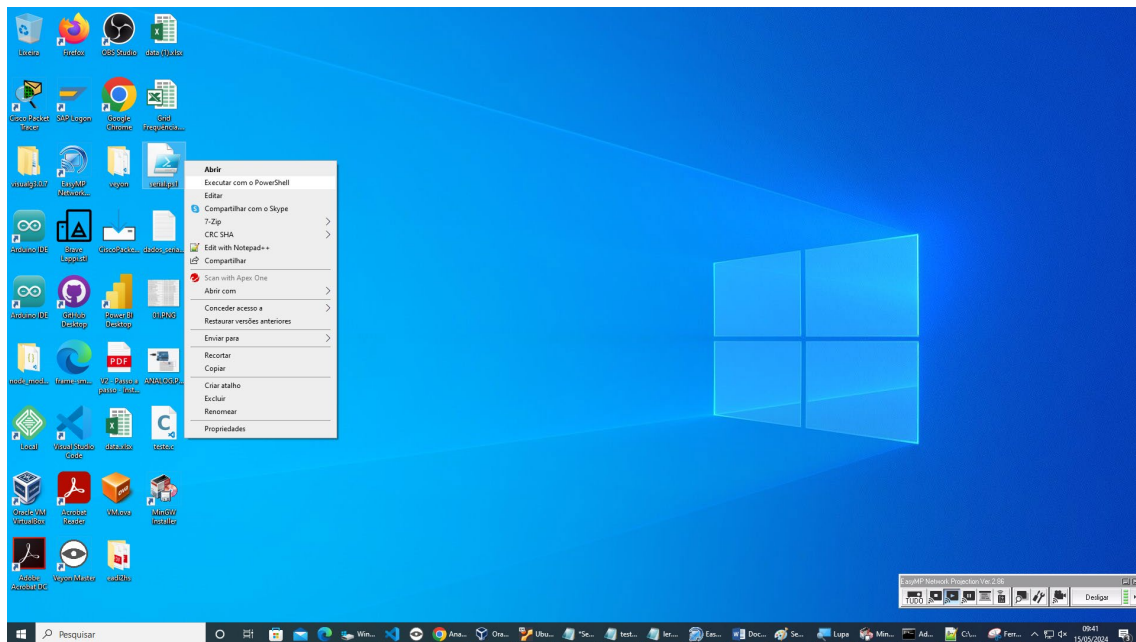
```

$portaSerial = New-Object System.IO.Ports.SerialPort COM30,9600,None,8,one
$portaSerial.Open()
$arquivo = "dados_serial.txt"

try {
    while ($true) {
        if ($portaSerial.BytesToRead -gt 0) {
            $dados = $portaSerial.ReadLine()
            Write-Host "Lido: $dados"
            Set-Content -Path $arquivo -Value $dados
        }
    }
}
finally {
    $portaSerial.Close()
}

```

Execute o código com powershell



CRIE UM Documento do tipo HTML e insira o seguinte código

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Document</title>
</head>

```

```
<body>
  </div>

  <!-- Incluir o corpo -->
  <div id="main-content">
    <object type="text/html" data="dados_serial.txt"></object>
  </div>
</body>
</html>
```

FEITO ISSO SUA PÁGINA HTML SERÁ CAPAZ DE LER OS VALORES DA PORTA SERIAL DE SEU ARDUINO SEMPRE QUE A PÁGINA FOR ATUALIZADA

