Instalando o NodeJS e Criando o primeiro app em React JS

Acesse o site https://nodejs.org

Guilherme Henrique de Souza
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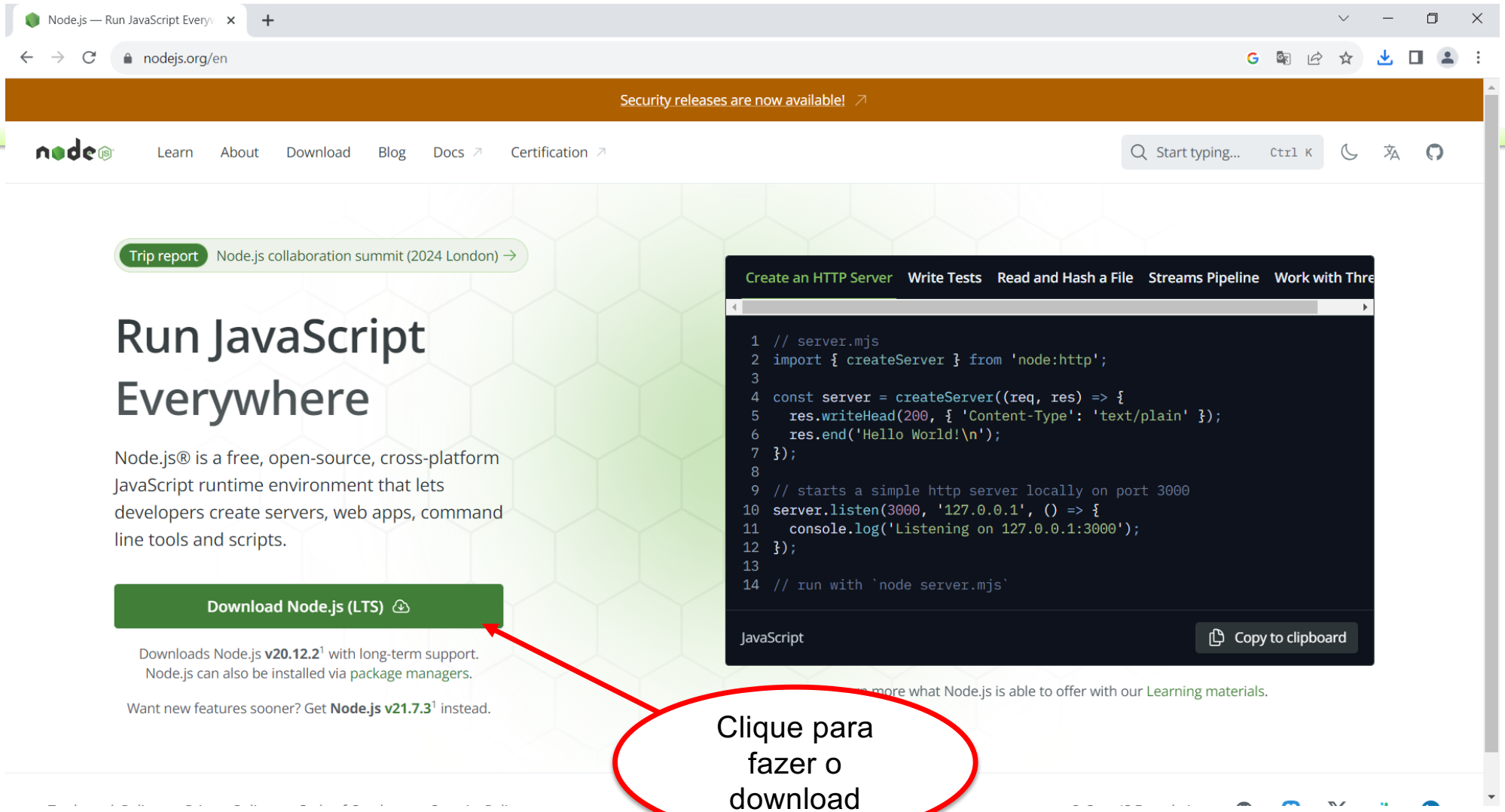
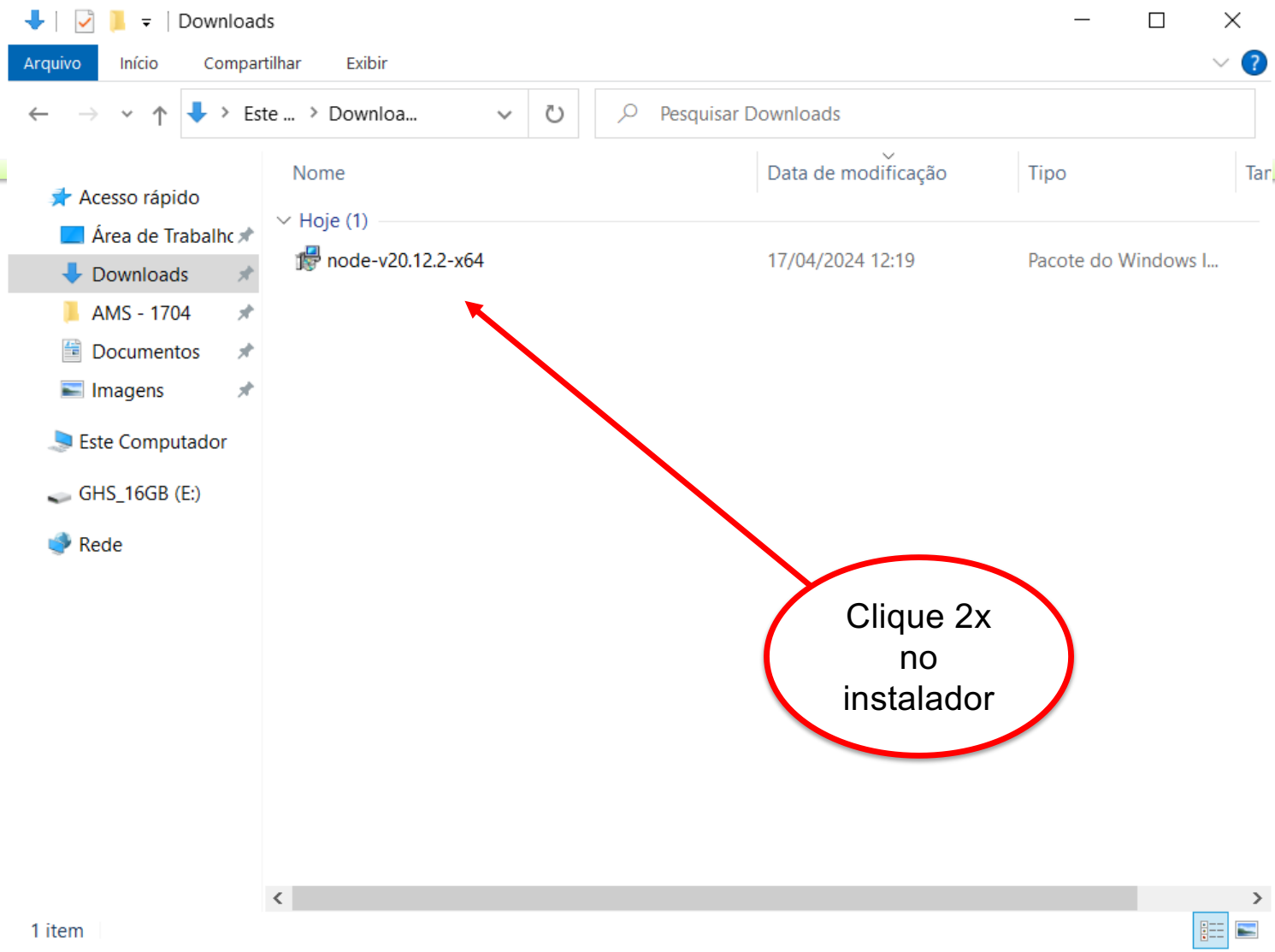
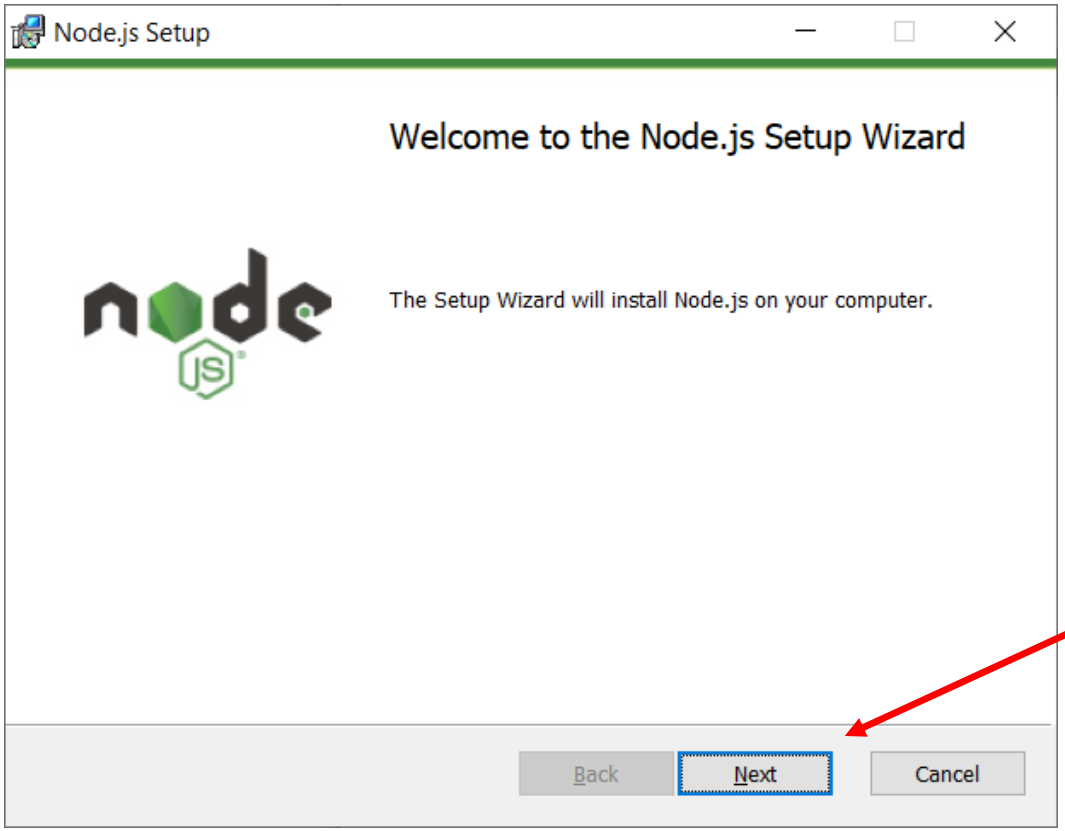

Node.js — Run JavaScript Every
nodejs.org/en
Security releases are now available!
Learn
About
Download
Blog
Docs
Certification
Start typing...
Ctrl K
Trip report
Node.js collaboration summit (2024 London)
Run JavaScript Everywhere
Node.js® is a free, open-source, cross-platform JavaScript runtime environment that lets developers create servers, web apps, command line tools and scripts.
Download Node.js (LTS)
Downloads Node.js v20.12.2[1] with long-term support.
Node.js can also be installed via package managers.
Want new features sooner? Get Node.js v21.7.3[1] instead.
Create an HTTP Server
Write Tests
Read and Hash a File
Streams Pipeline
Work with Thre
1 // server.mjs
2 import { createServer } from 'node:http';
3
4 const server = createServer((req, res) => {
5 res.writeHead(200, { 'Content-Type': 'text/plain' });
6 res.end('Hello World!\n');
7 });
8
9 // starts a simple http server locally on port 3000
10 server.listen(3000, '127.0.0.1', () => {
11 console.log('Listening on 127.0.0.1:3000');
12 });
13
14 // run with `node server.mjs`
JavaScript
Copy to clipboard
more what Node.js is able to offer with our Learning materials.
Clique para fazer o download

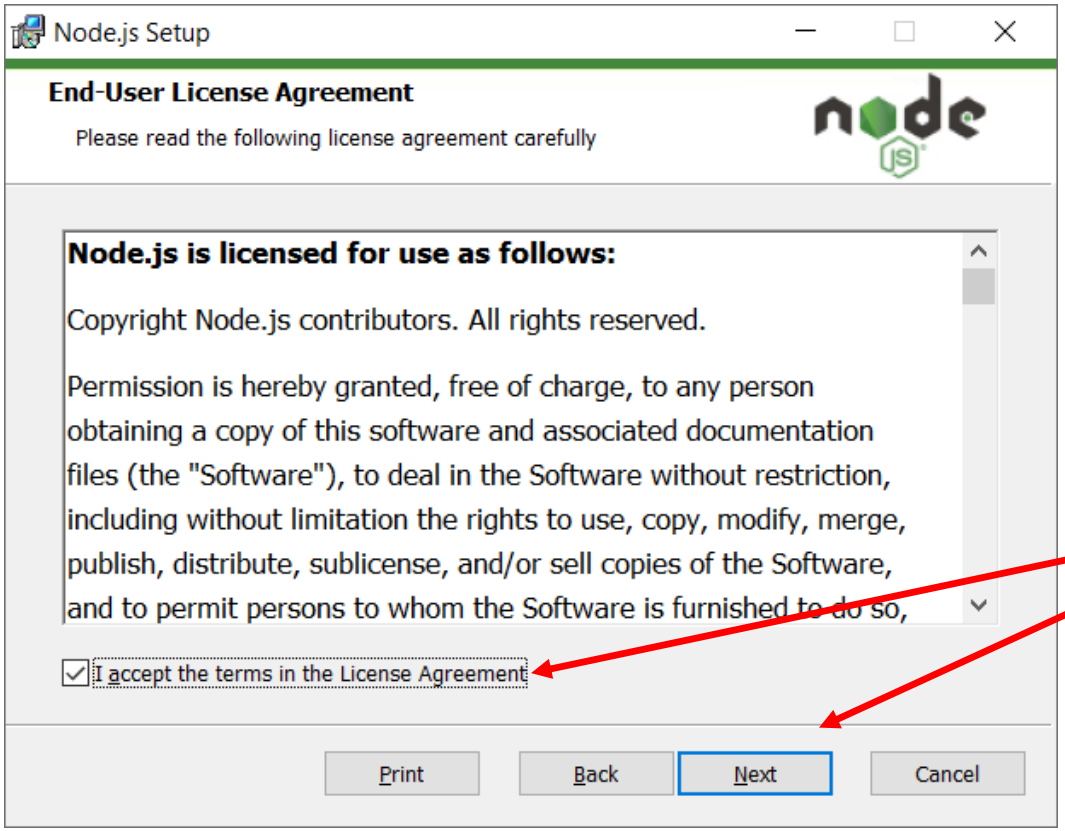

Downloads
Arquivo
Início
Compartilhar
Exibir
Este ...
Downloa...
Pesquisar Downloads
Acesso rápido
Área de Trabalho
Downloads
AMS - 1704
Documentos
Imagens
Este Computador
GHS_16GB (E:)
Rede
Nome
Data de modificação
Tipo
Tar
Hoje (1)
node-v20.12.2-x64
17/04/2024 12:19
Pacote do Windows I...
Clique 2x no instalador
1 item

Instalando o Node.js



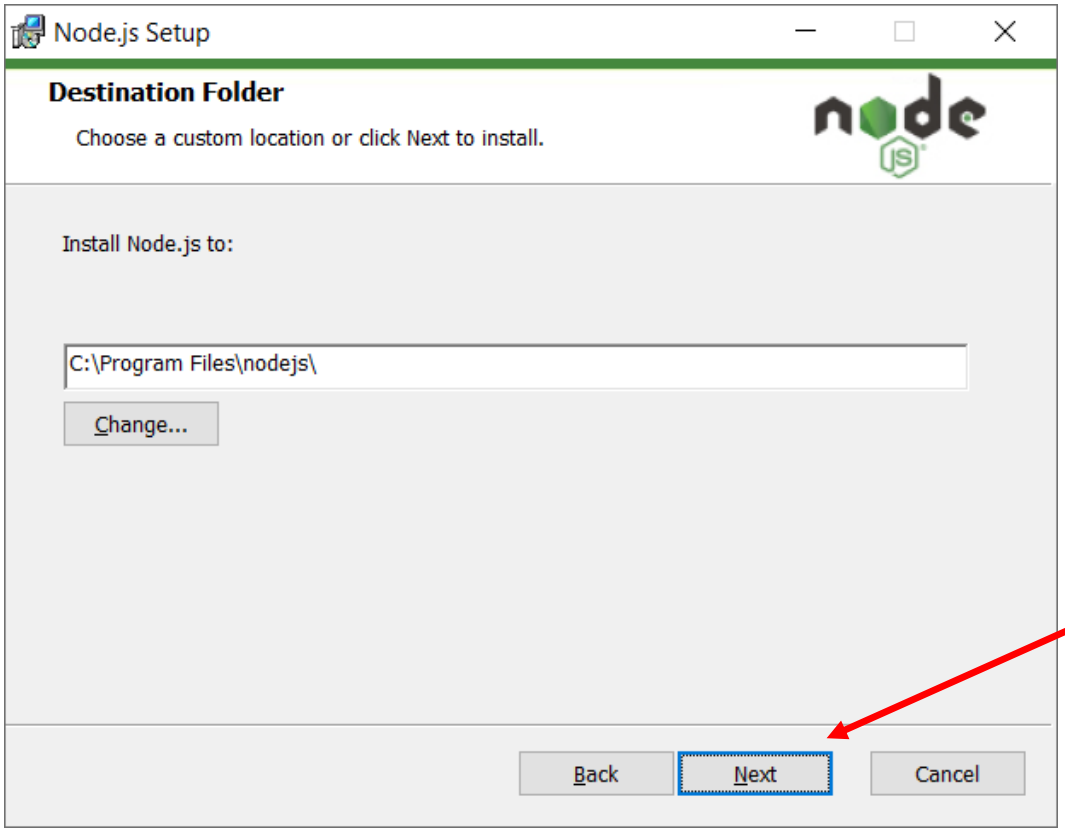
Clique para avançar

Instalando o Node.js



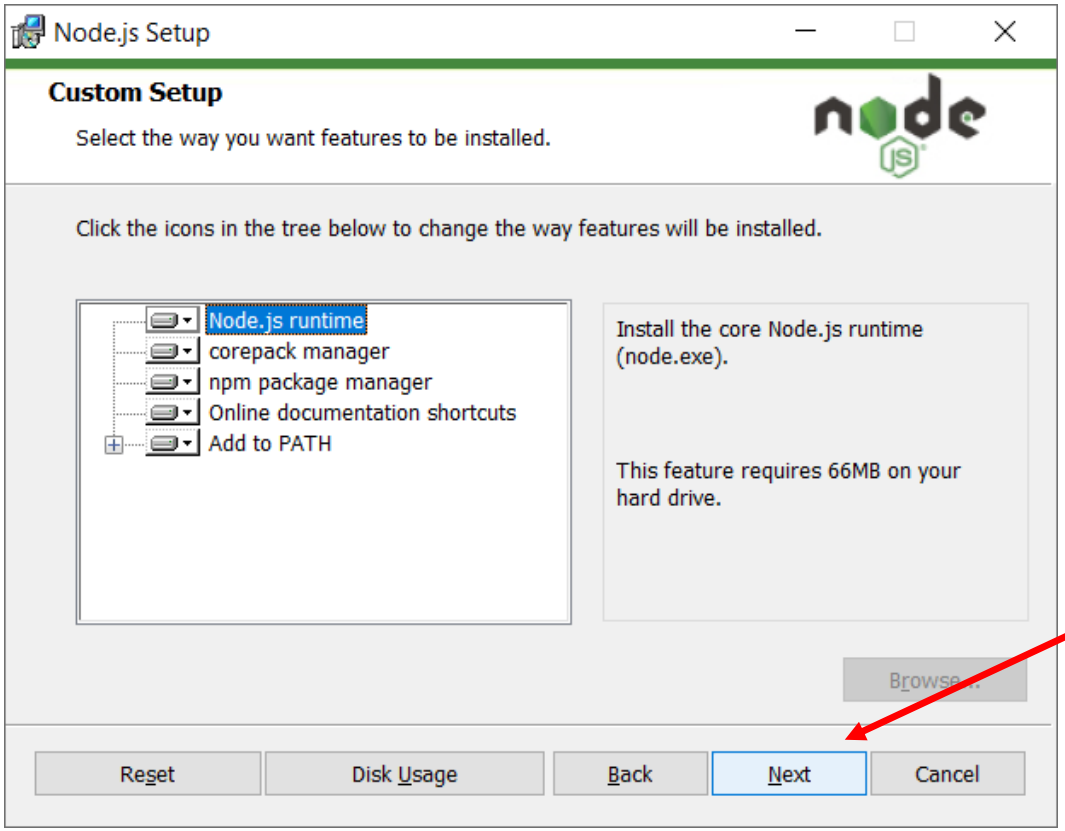
Aceite os termos, e clique para avançar

Instalando o Node.js



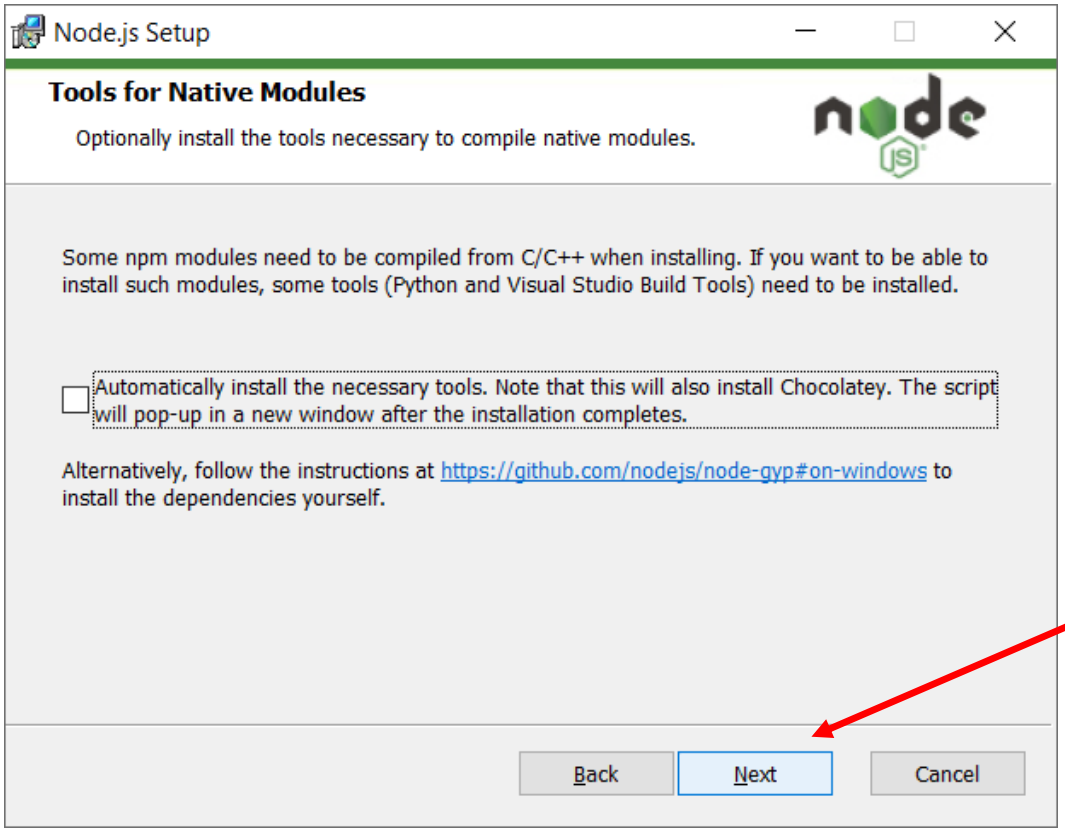
Clique para avançar

Instalando o Node.js



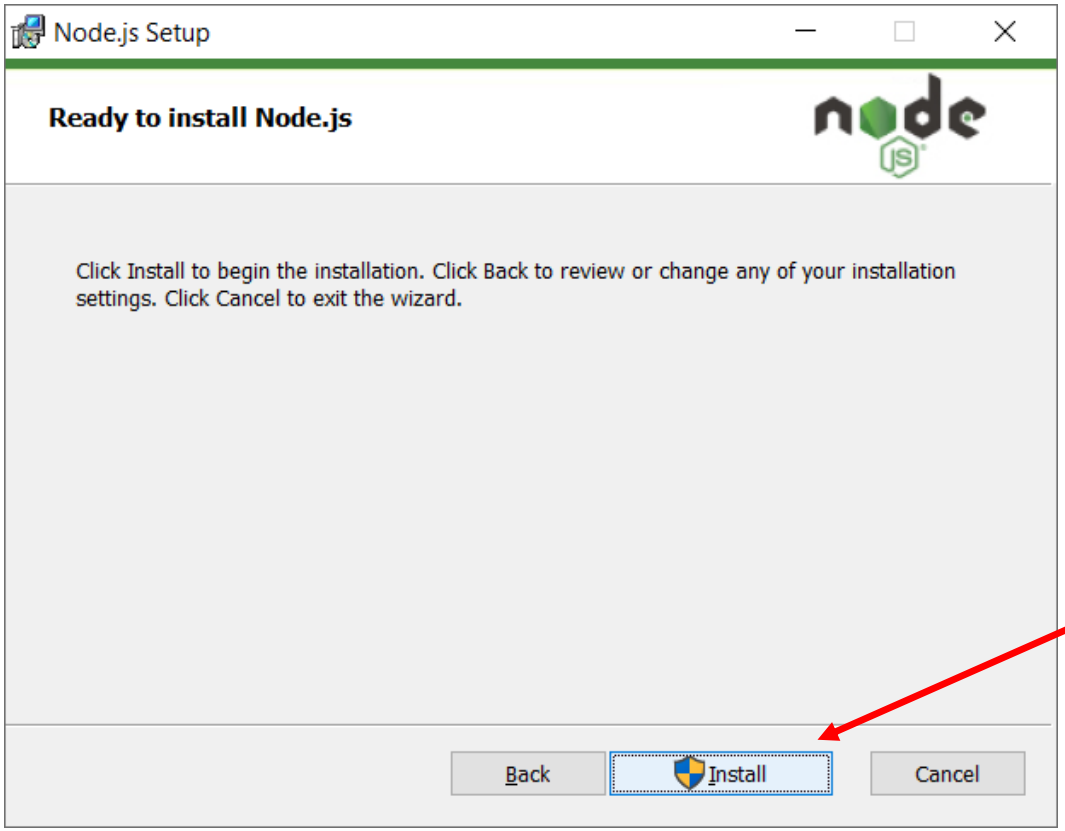
Clique para avançar

Instalando o Node.js

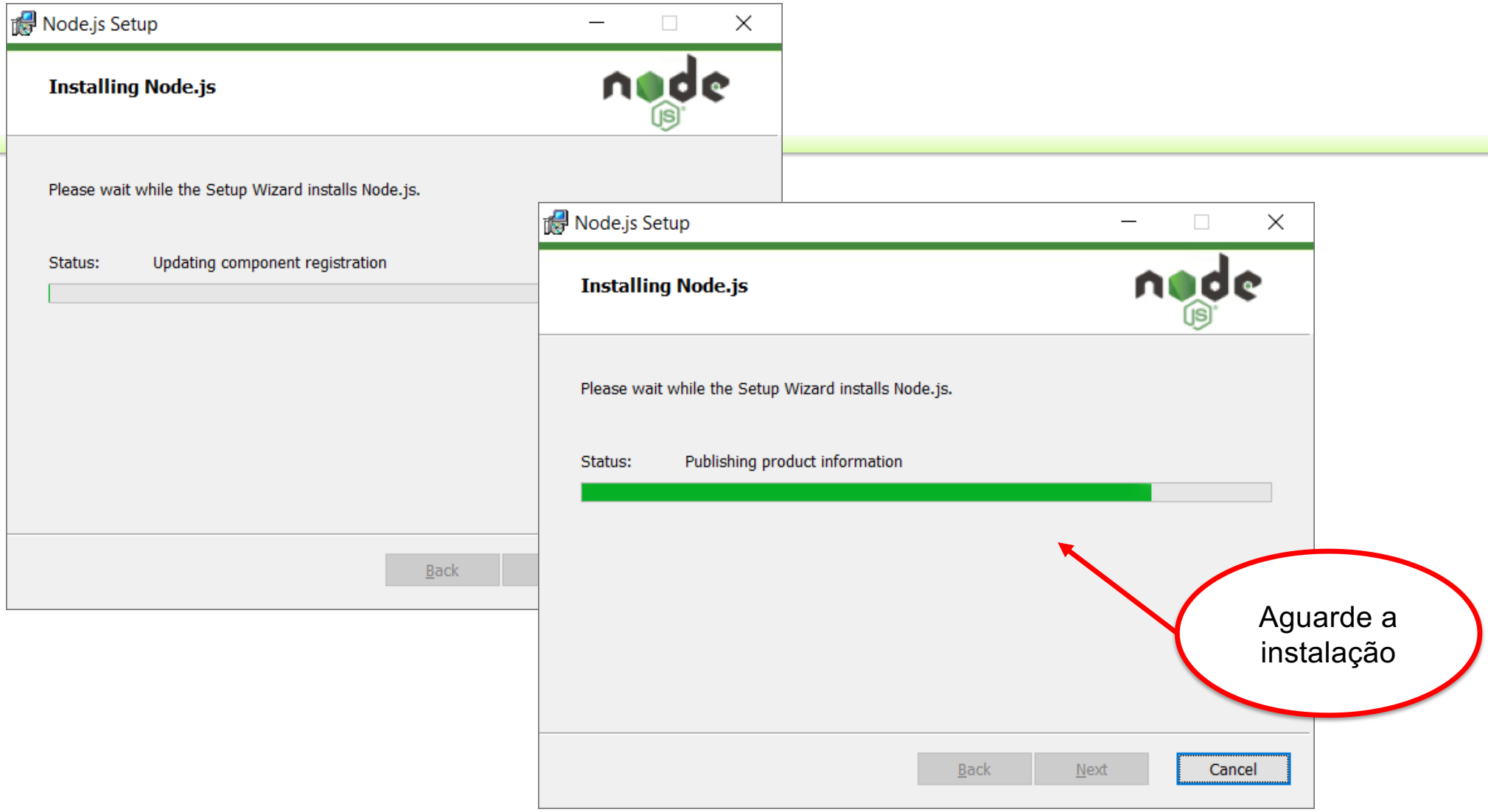


Clique para avançar

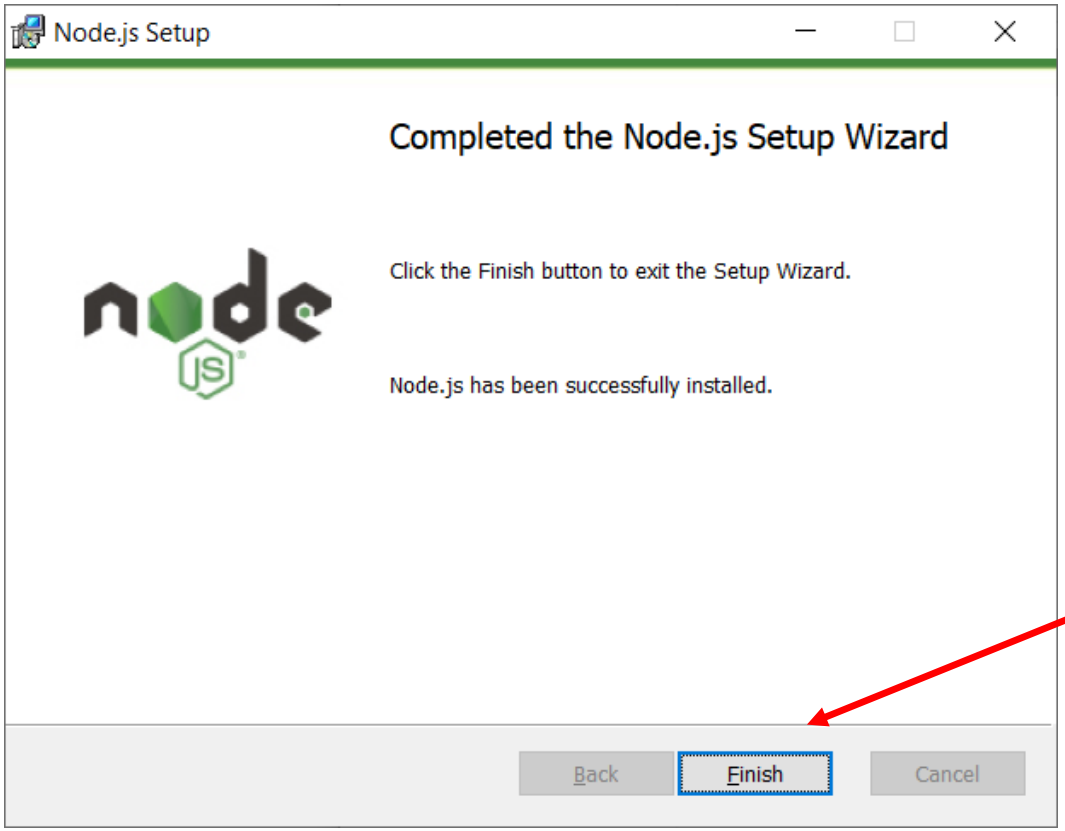
Instalando o Node.js



Clique para iniciar a instalação

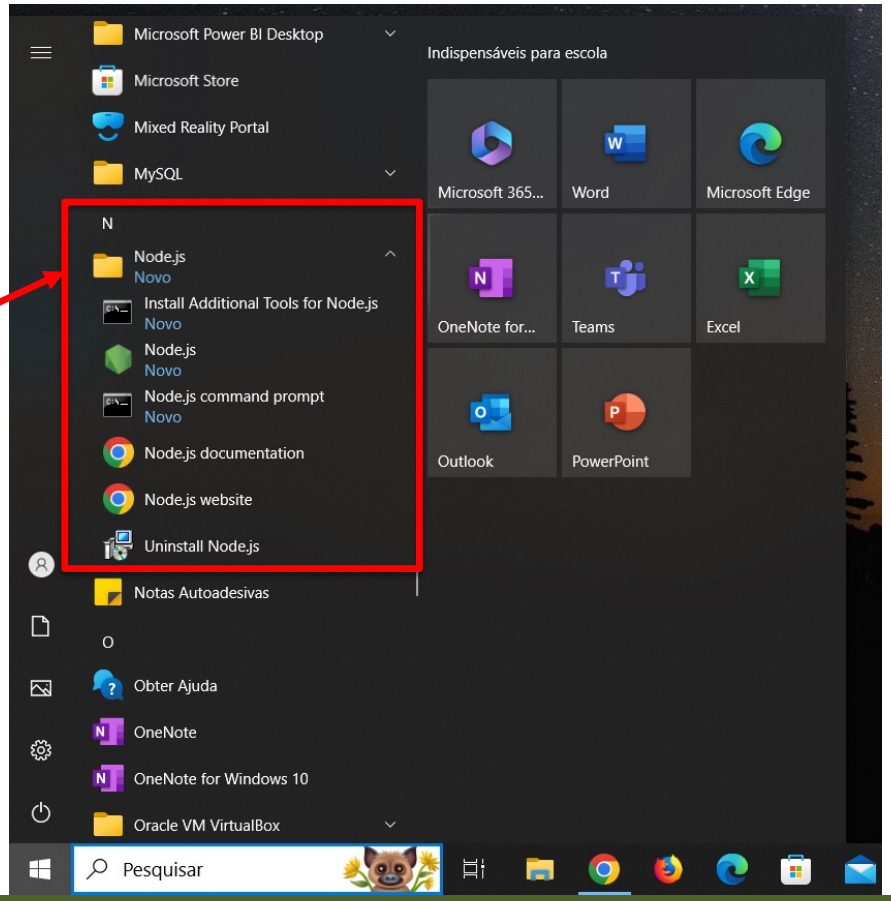

Node.js Setup
Installing Node.js
Please wait while the Setup Wizard installs Node.js.
Status: Updating component registration
Back
Node.js Setup
Installing Node.js
Please wait while the Setup Wizard installs Node.js.
Status: Publishing product information
Back
Next
Cancel
Aguarde a instalação

Instalando o Node.js



Clique para finalizar

Grupo de programas no Windows



Abra o terminal do Windows para verificar a versão

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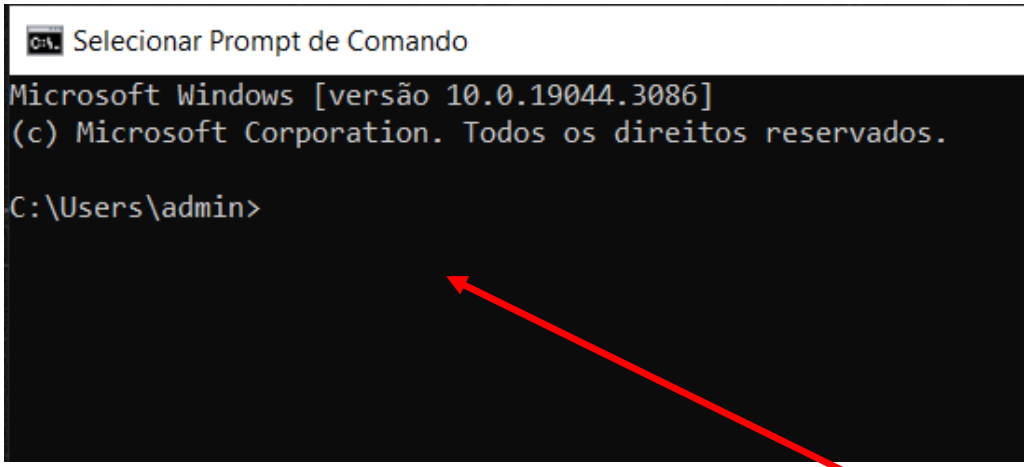
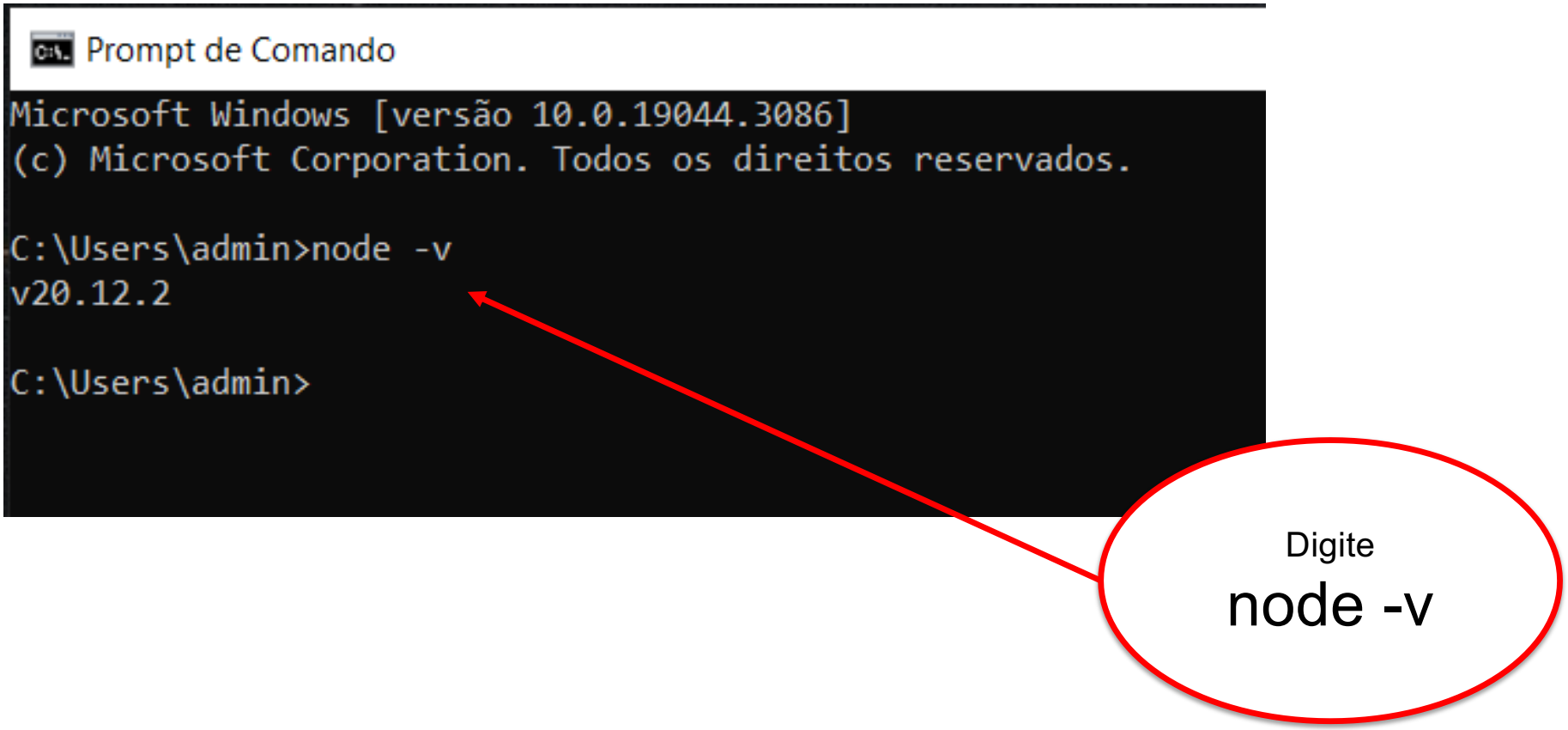
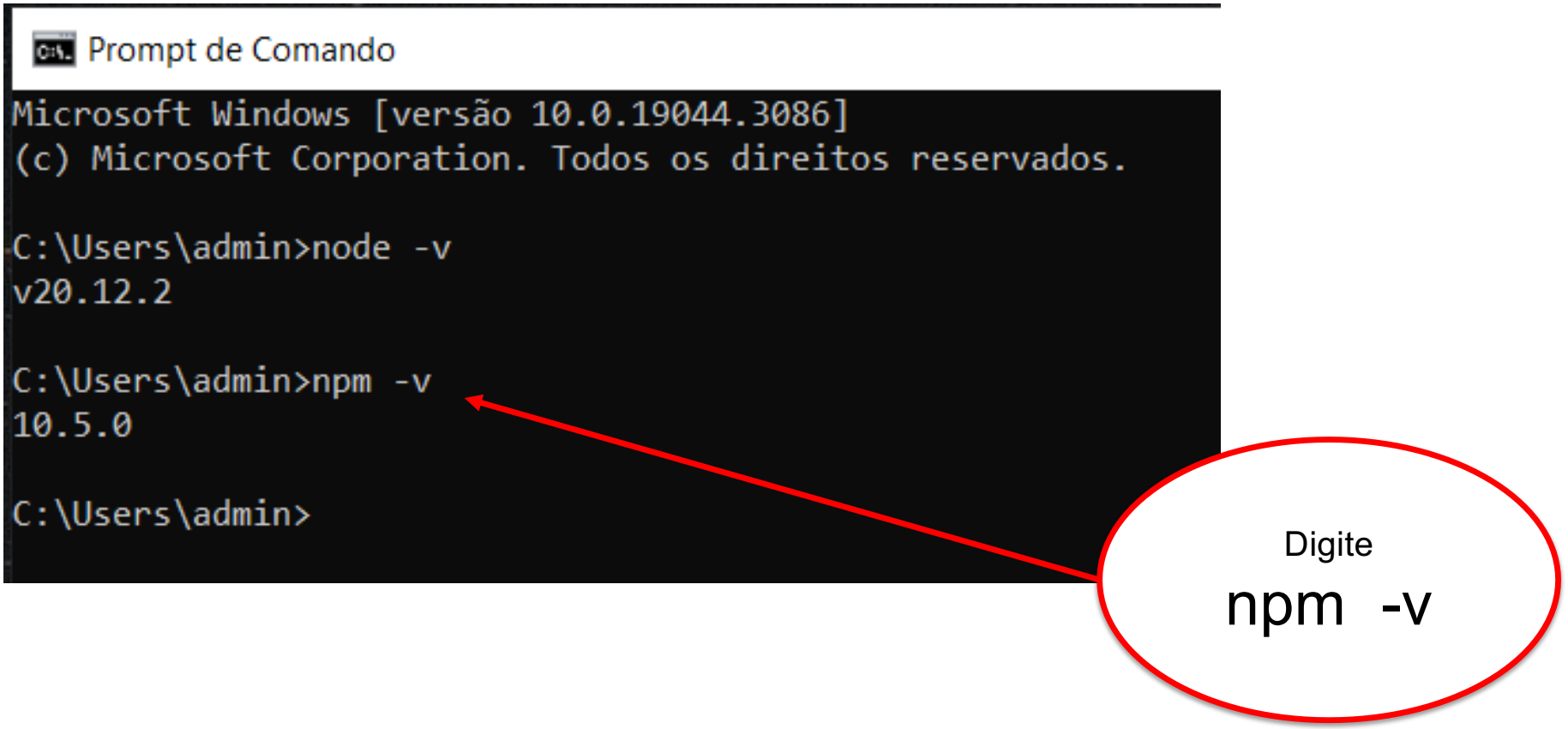


Prompt de Comando


Prompt de Comando
Microsoft Windows [versão 10.0.19044.3086]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\admin>node -v
v20.12.2
C:\Users\admin>
Digite
node -v


Prompt de Comando
Microsoft Windows [versão 10.0.19044.3086]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\admin>node -v
v20.12.2
C:\Users\admin>npm -v
10.5.0
C:\Users\admin>
Digite
npm -v

Criando um novo Projeto React JS

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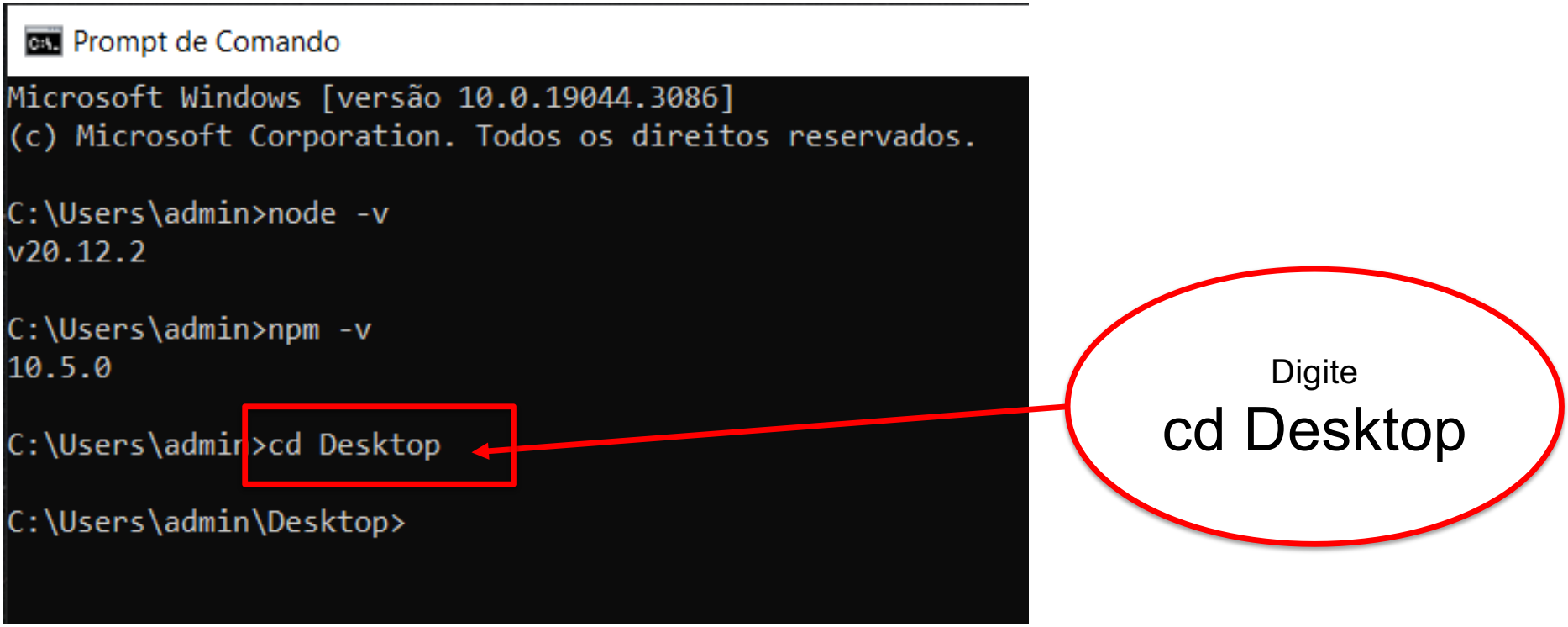
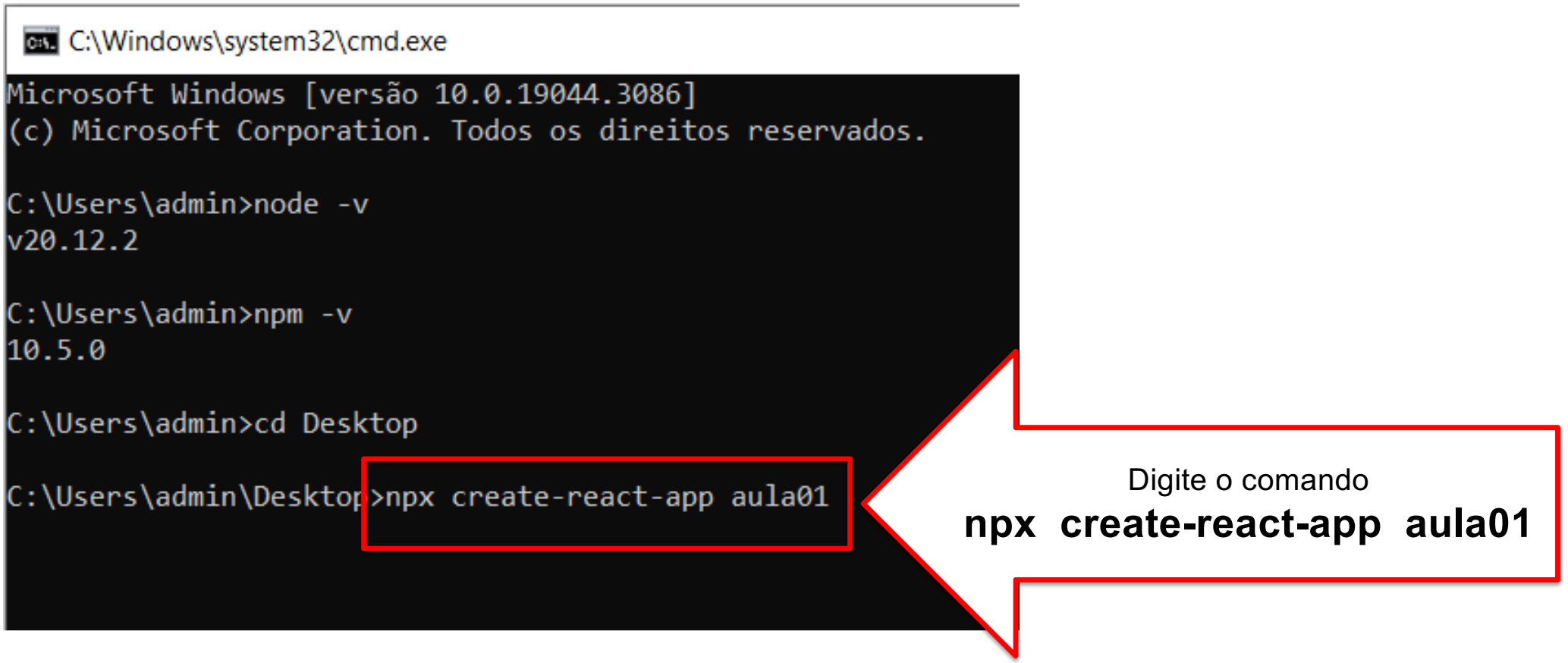
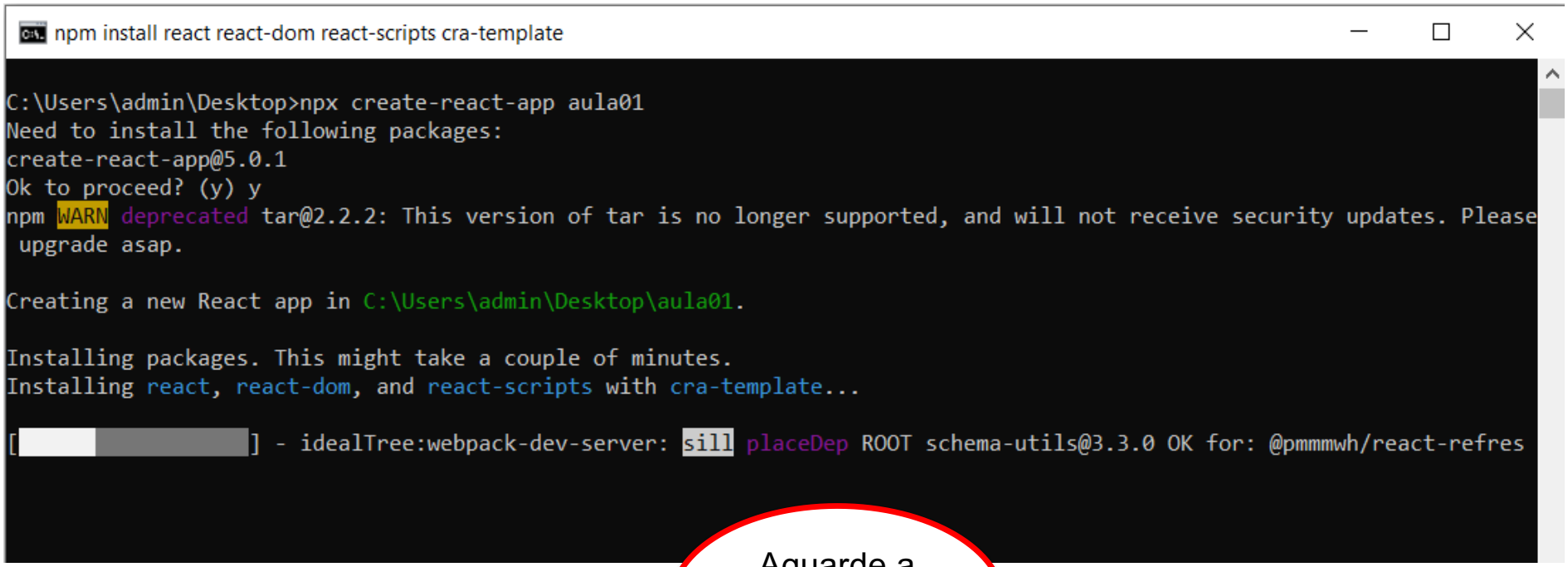

Prompt de Comando
Microsoft Windows [versão 10.0.19044.3086]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\admin>node -v
v20.12.2
C:\Users\admin>npm -v
10.5.0
C:\Users\admin>cd Desktop
C:\Users\admin\Desktop>
Digite
cd Desktop

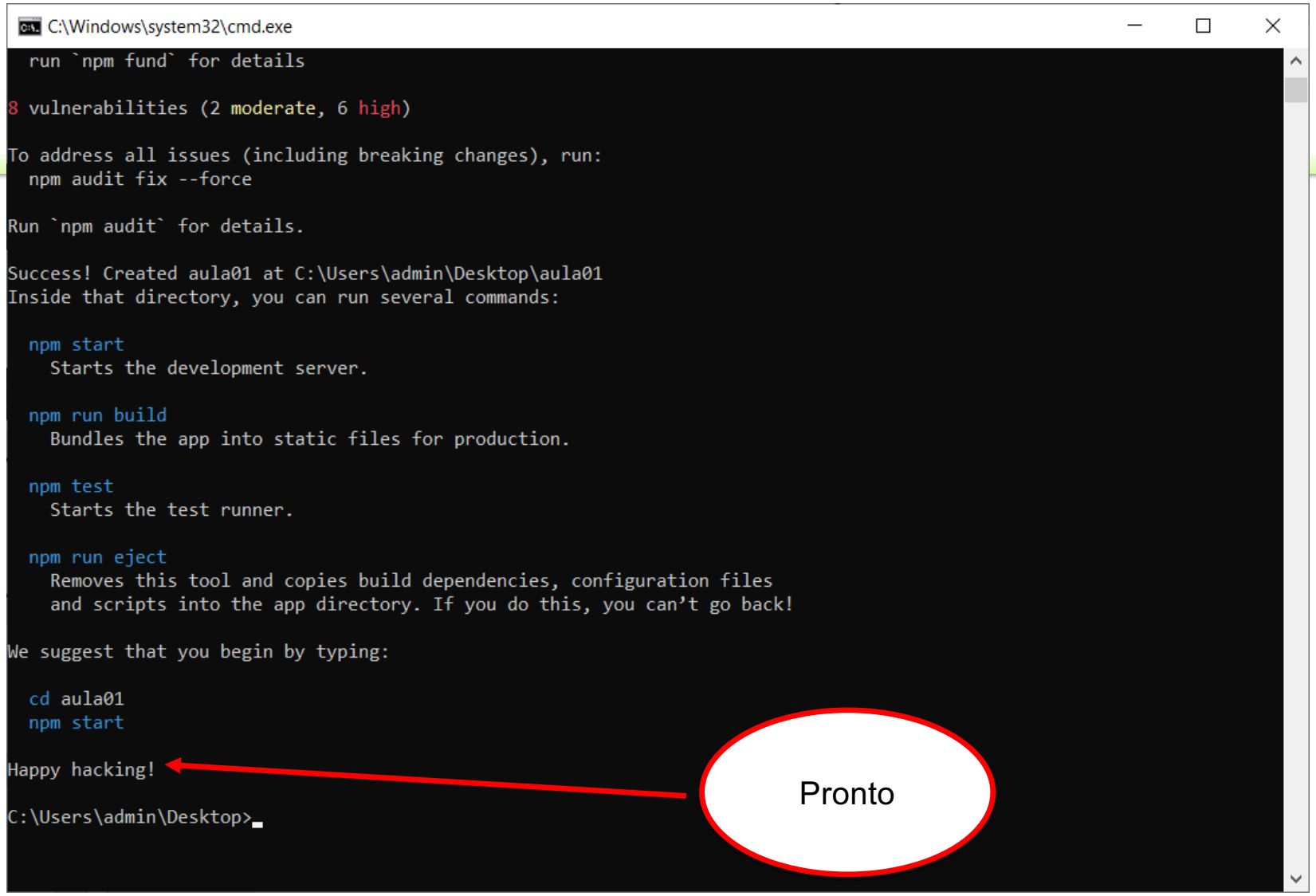

C:\Windows\system32\cmd.exe
Microsoft Windows [versão 10.0.19044.3086]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\admin>node -v
v20.12.2
C:\Users\admin>npm -v
10.5.0
C:\Users\admin>cd Desktop
C:\Users\admin\Desktop>npx create-react-app aula01
Digite o comando
npx create-react-app aula01

npm exec create-react-app aula01

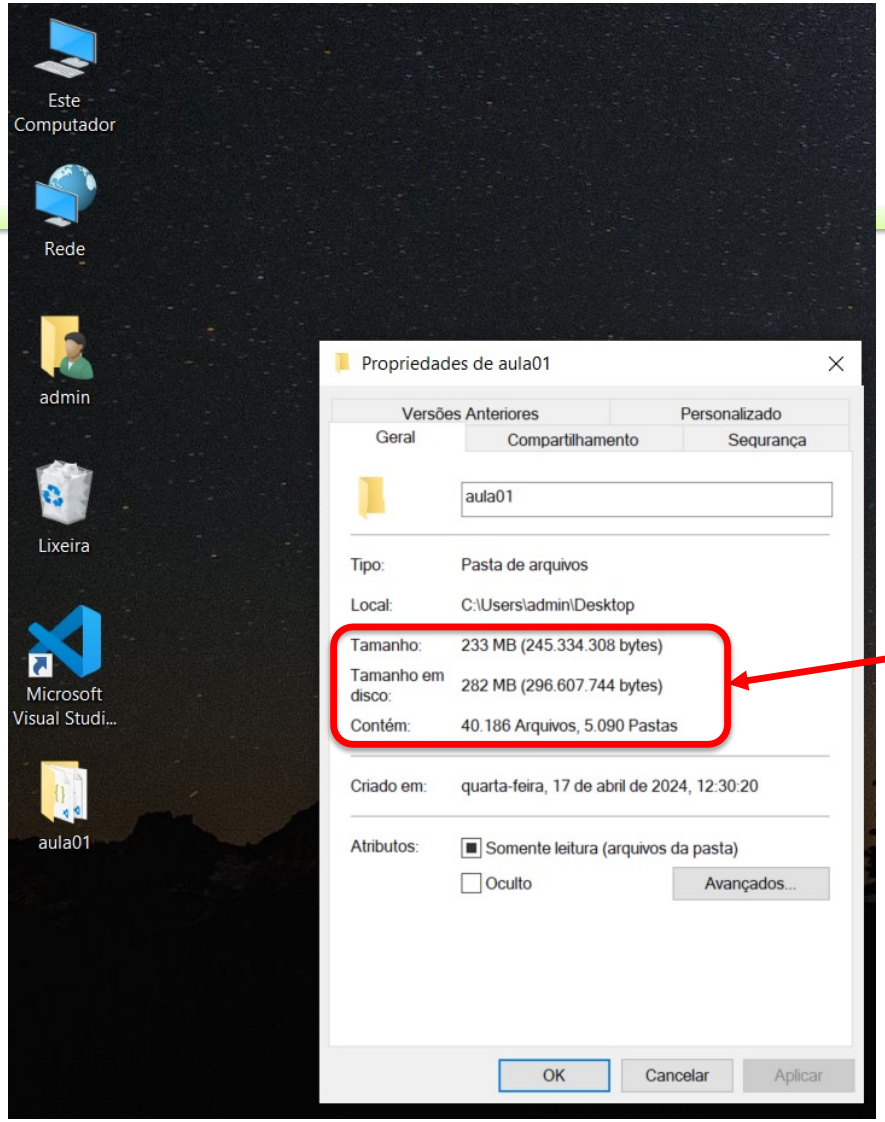
```
C:\Users\admin\Desktop>npx create-react-app aula01
Need to install the following packages:
create-react-app@5.0.1
Ok to proceed? (y)
```



Aguarde a instalação e criação


C:\Windows\system32\cmd.exe
run `npm fund` for details
8 vulnerabilities (2 moderate, 6 high)
To address all issues (including breaking changes), run:
npm audit fix --force
Run `npm audit` for details.
Success! Created aula01 at C:\Users\admin\Desktop\aula01
Inside that directory, you can run several commands:
npm start
Starts the development server.
npm run build
Bundles the app into static files for production.
npm test
Starts the test runner.
npm run eject
Removes this tool and copies build dependencies, configuration files
and scripts into the app directory. If you do this, you can't go back!
We suggest that you begin by typing:
cd aula01
npm start
Happy hacking!
C:\Users\admin\Desktop>
Pronto

```
Run `npm audit` for details.

Success! Created aula01 at C:\Users\admin\Desktop\aula01
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd aula01
  npm start

Happy hacking!

C:\Users\admin\Desktop>
```



Tamanho da pasta

Abrindo o Projeto no Visual Code

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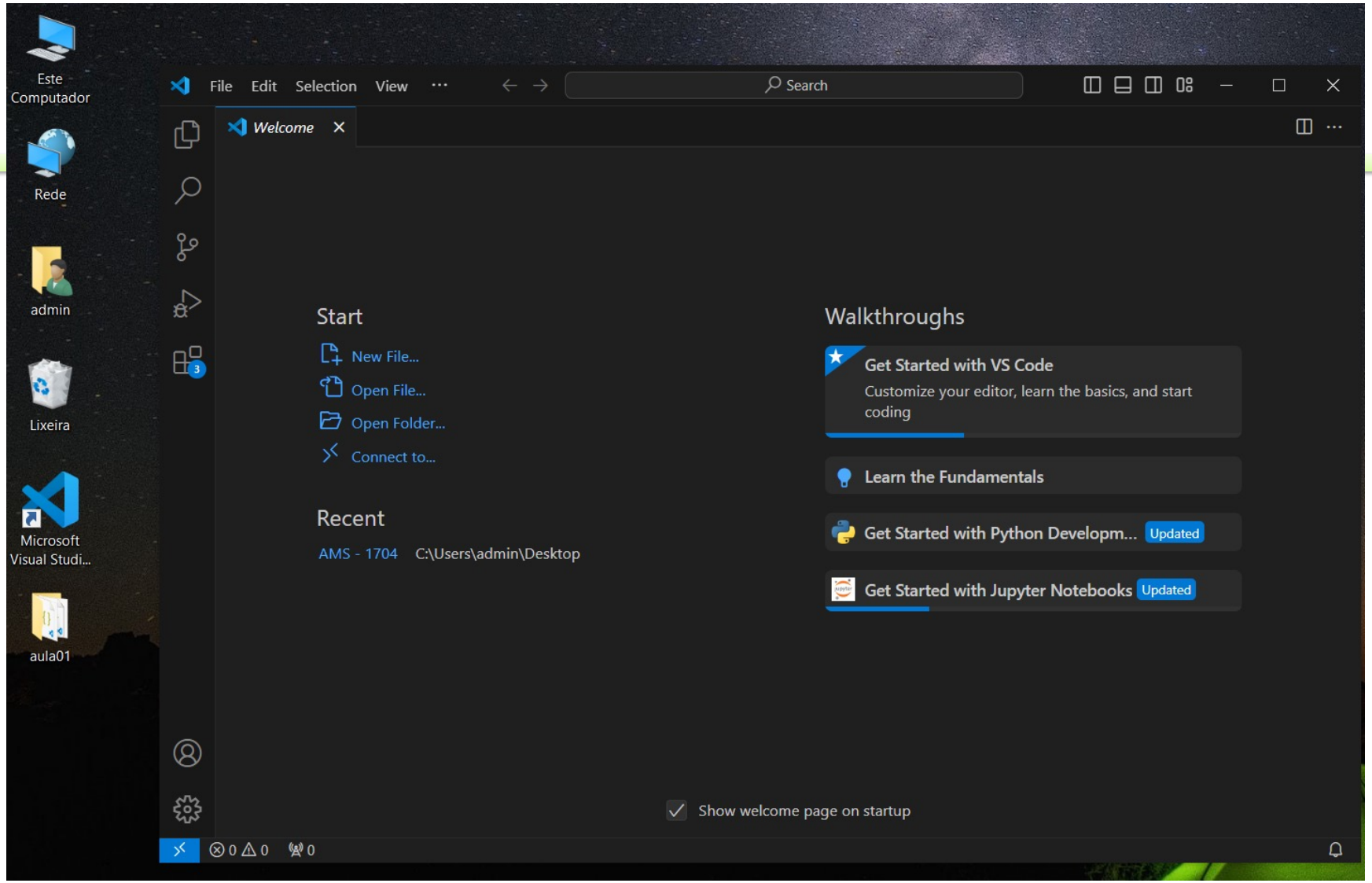
guilherme.souza183@fatec.sp.gov.br


Este Computador
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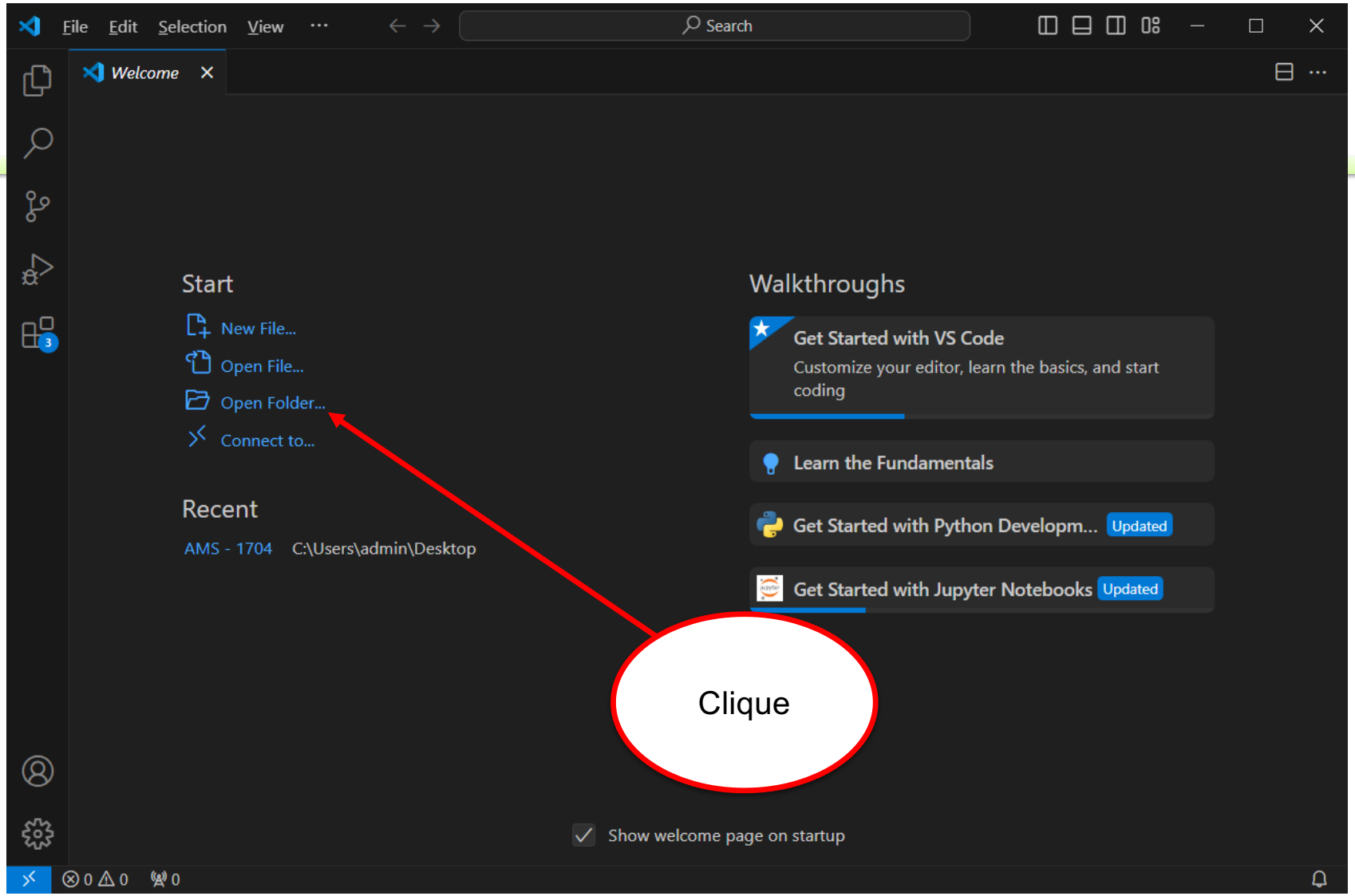
Microsoft Visual Studi...
aula01
File Edit Selection View
Search
Welcome
Start
New File...
Open File...
Open Folder...
Connect to...
Recent
AMS - 1704 C:\Users\admin\Desktop
Walkthroughs
Get Started with VS Code
Customize your editor, learn the basics, and start coding
Learn the Fundamentals
Get Started with Python Developm... Updated
Get Started with Jupyter Notebooks Updated
Show welcome page on startup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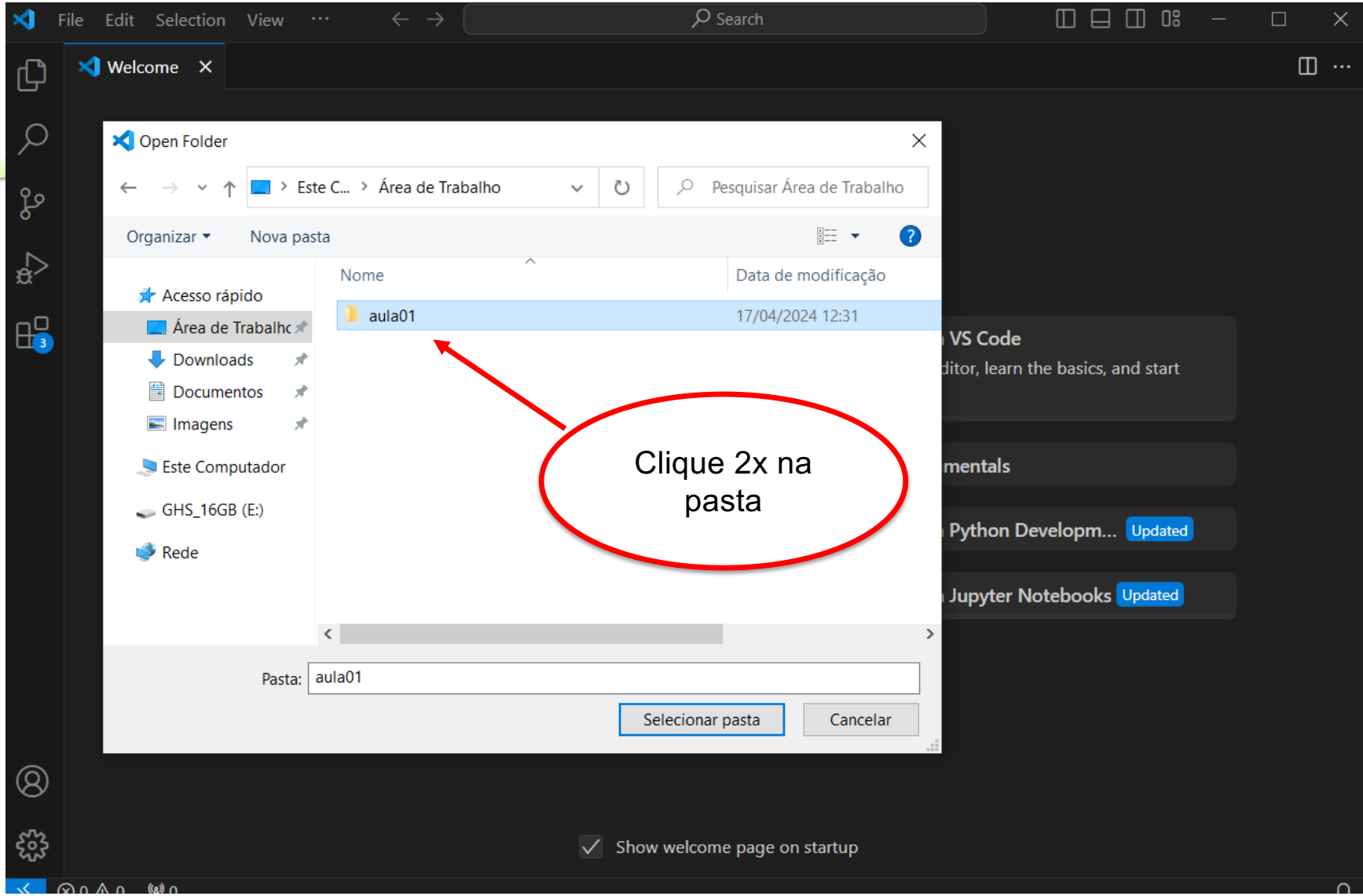
Start
New File...
Open File...
Open Folder...
Connect to...
Recent
AMS - 1704 C:\Users\admin\Desktop
Walkthroughs
Get Started with VS Code
Customize your editor, learn the basics, and start coding
Learn the Fundamentals
Get Started with Python Developm... Updated
Get Started with Jupyter Notebooks Updated
Clique
Show welcome page on startup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Selection
View
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Welcome
Open Folder
Este C...
Área de Trabalho
Pesquisar Área de Trabalho
Organizar
Nova pasta
Nome
Data de modificação
Acesso rápido
Área de Trabalho
Downloads
Documentos
Imagens
Este Computador
GHS_16GB (E:)
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aula01
17/04/2024 12:31
Clique 2x na pasta
Pasta:
aula01
Selecionar pasta
Cancelar
VS Code
Python Developm...
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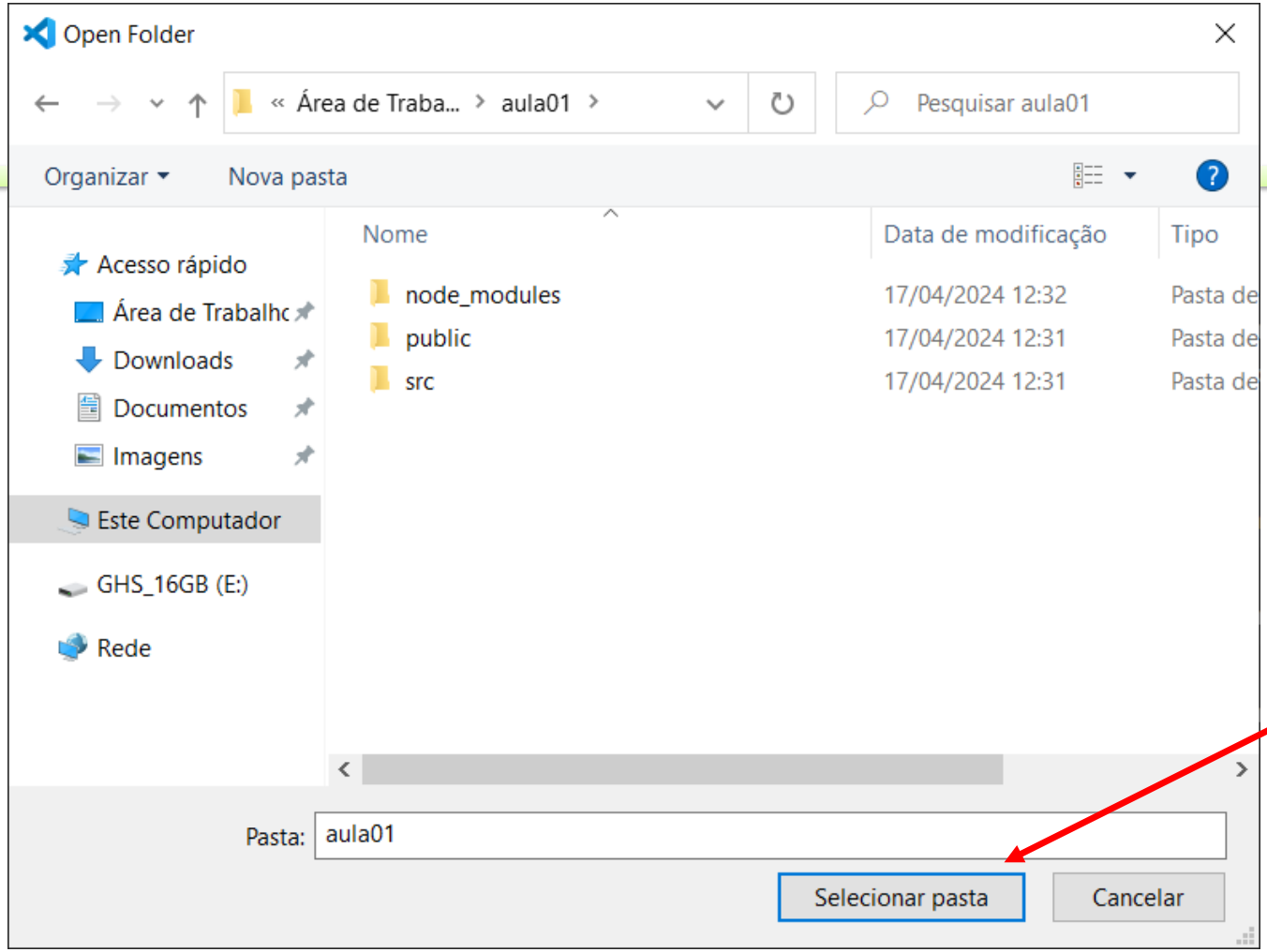
Jupyter Notebooks
Updated
Show welcome page on startup


Open Folder
« Área de Traba... › aula01 ›
Pesquisar aula01
Organizar
Nova pasta
Nome
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Acesso rápido
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node_modules
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public
17/04/2024 12:31
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src
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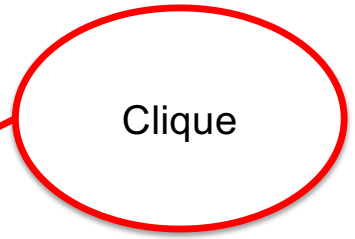
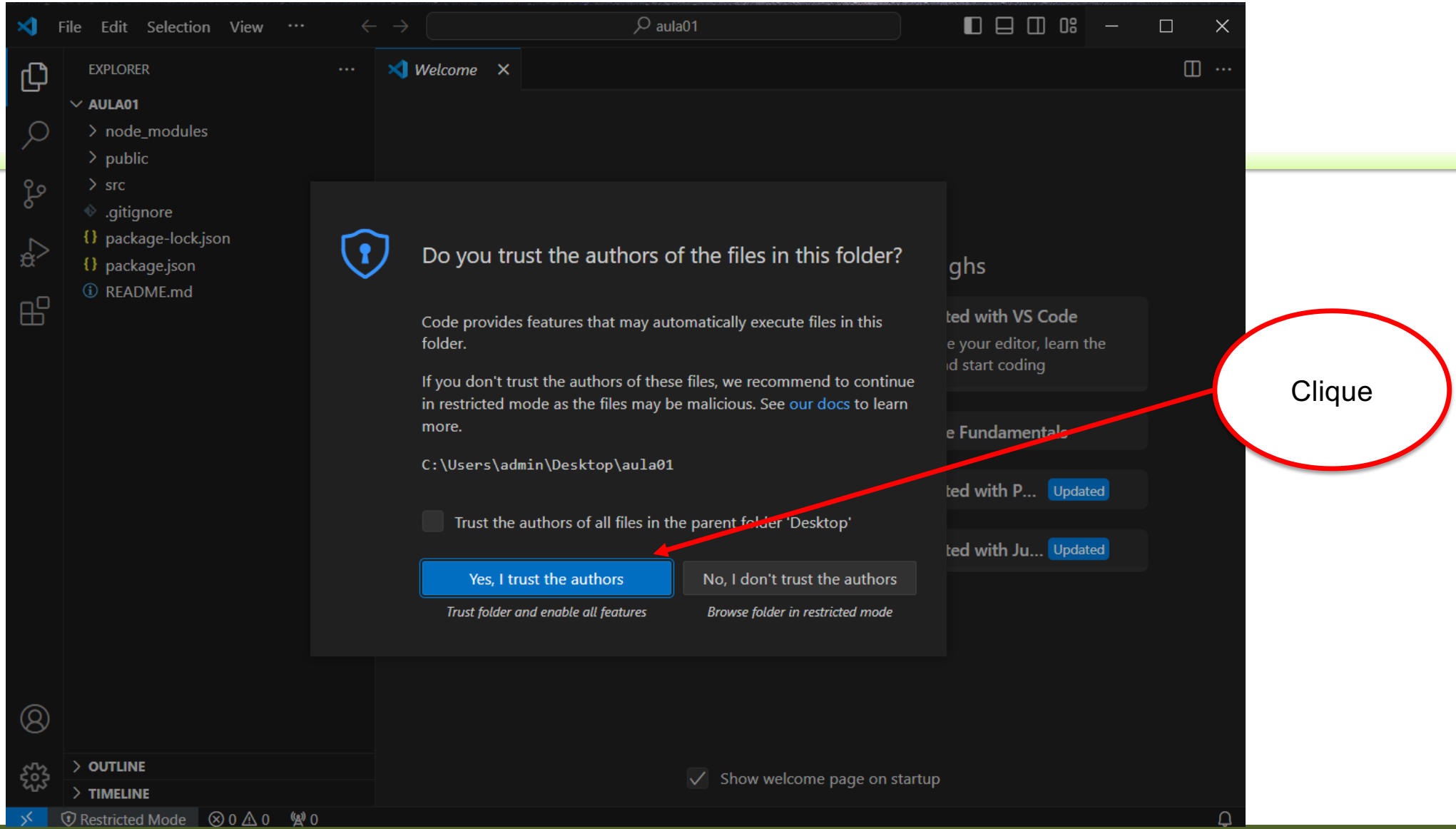
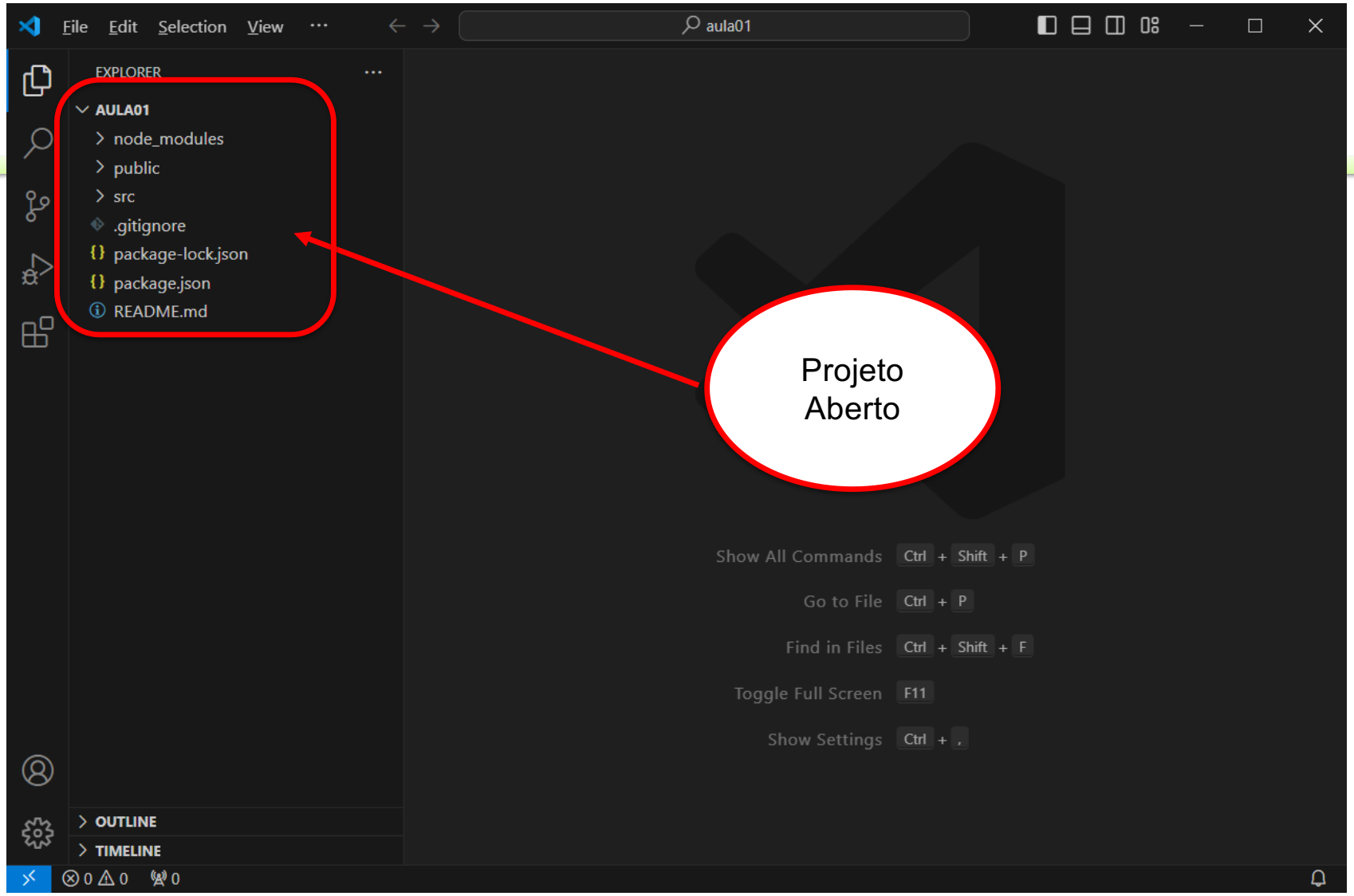
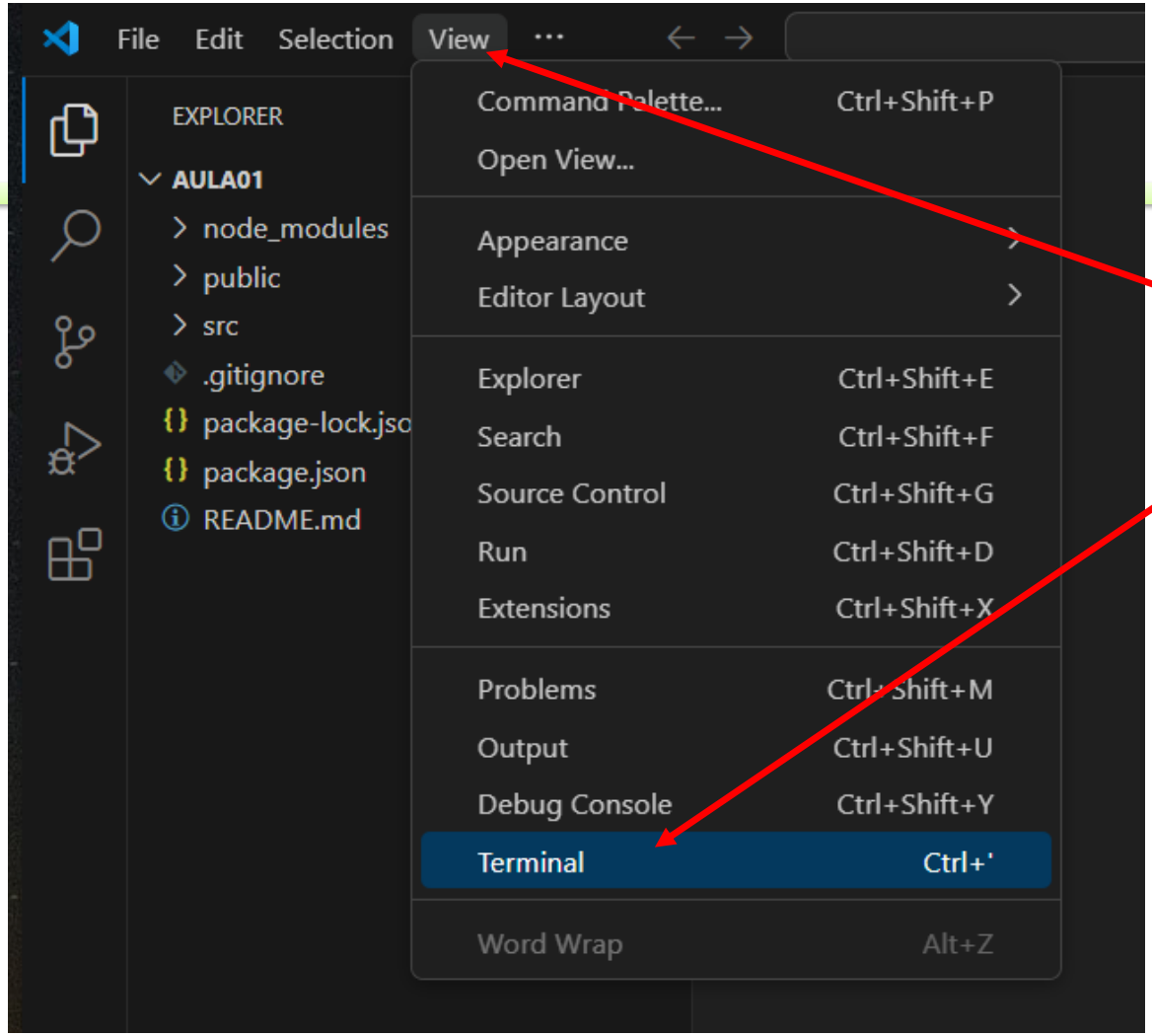
Pasta:
aula01
Selecionar pasta
Cancelar

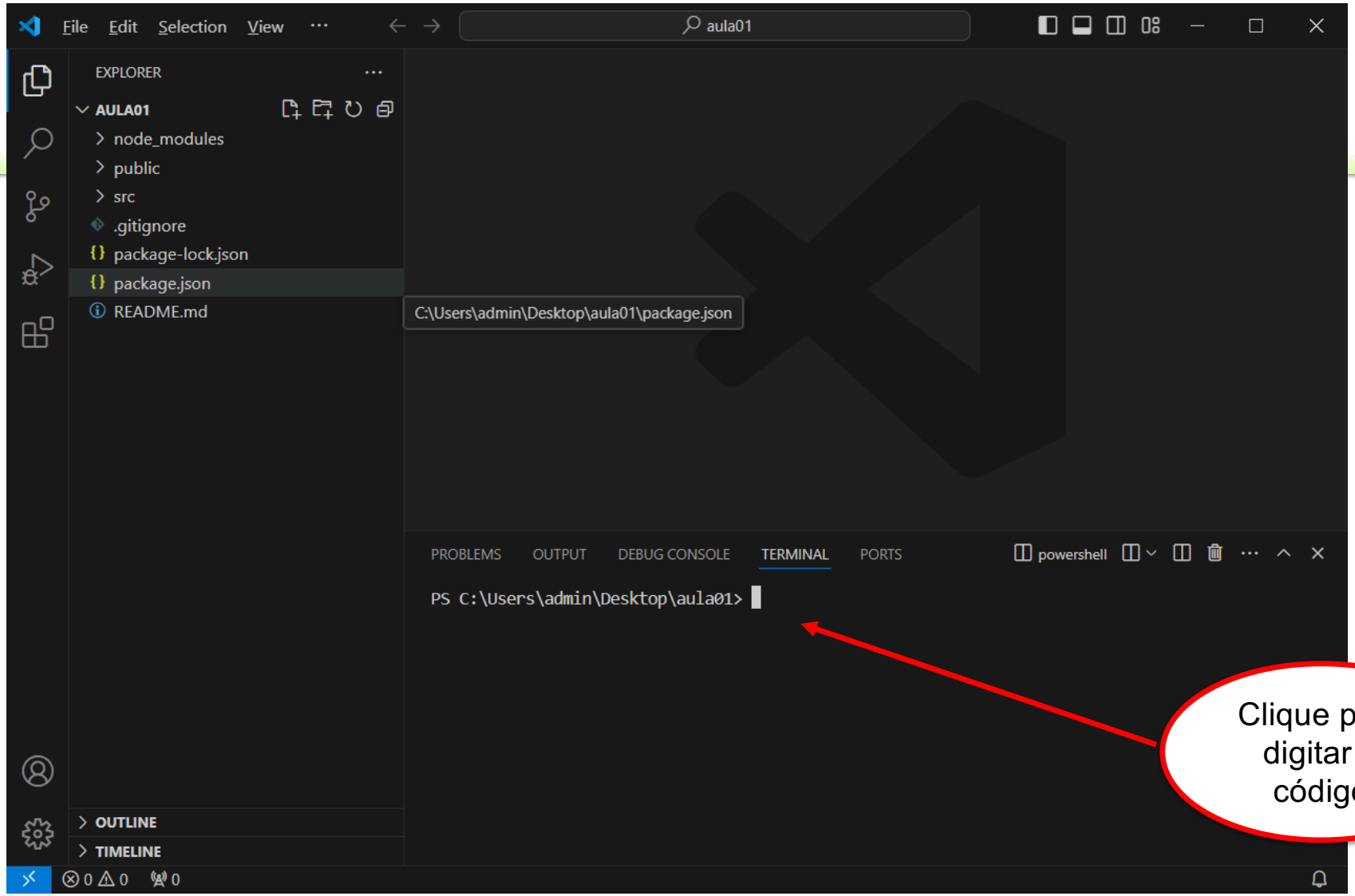

Clique

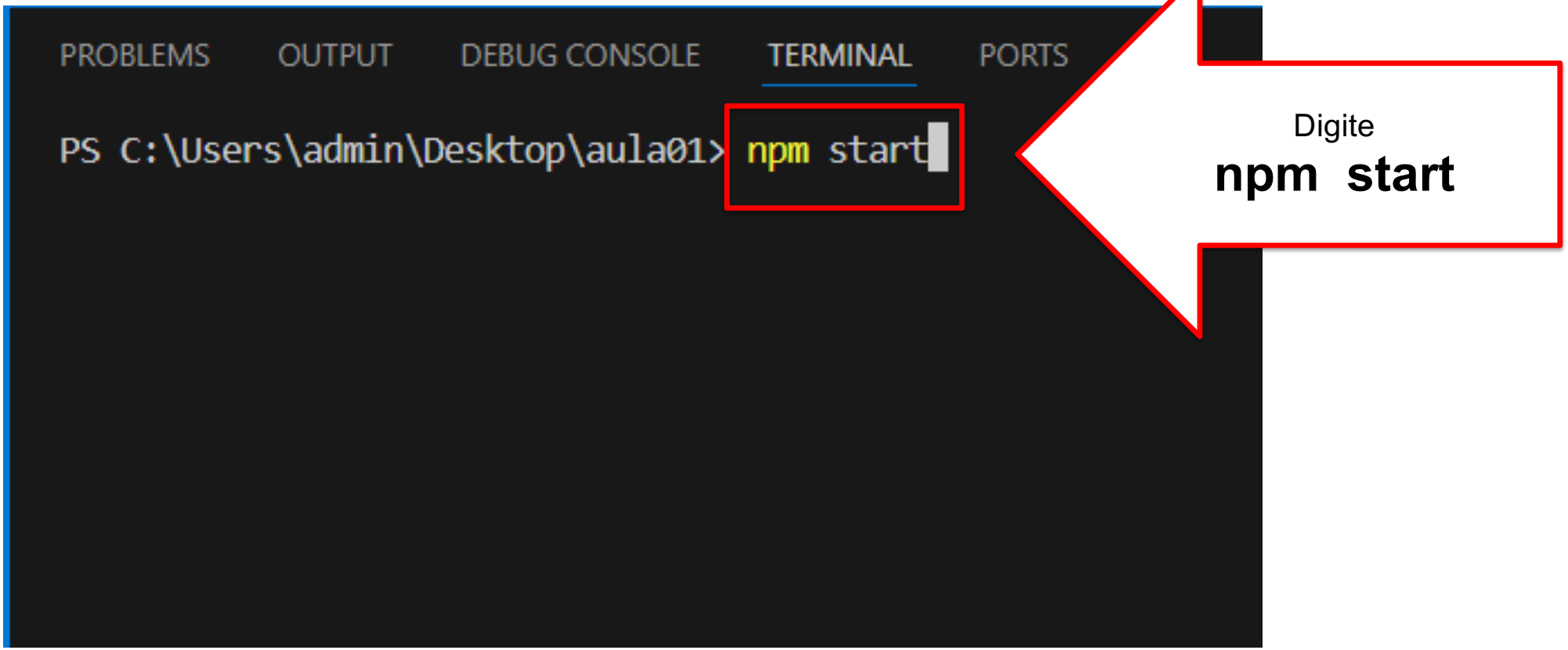

File Edit Selection View
aula01
EXPLORER
AULA01
node_modules
public
src
.gitignore
package-lock.json
package.json
README.md
Welcome
Do you trust the authors of the files in this folder?
Code provides features that may automatically execute files in this folder.
If you don't trust the authors of these files, we recommend to continue in restricted mode as the files may be malicious. See our docs to learn more.
C:\Users\admin\Desktop\aula01
Trust the authors of all files in the parent folder 'Desktop'
Yes, I trust the authors
No, I don't trust the authors
Trust folder and enable all features
Browse folder in restricted mode
Clique
Show welcome page on startup
OUTLINE
TIMELINE
Restricted Mode

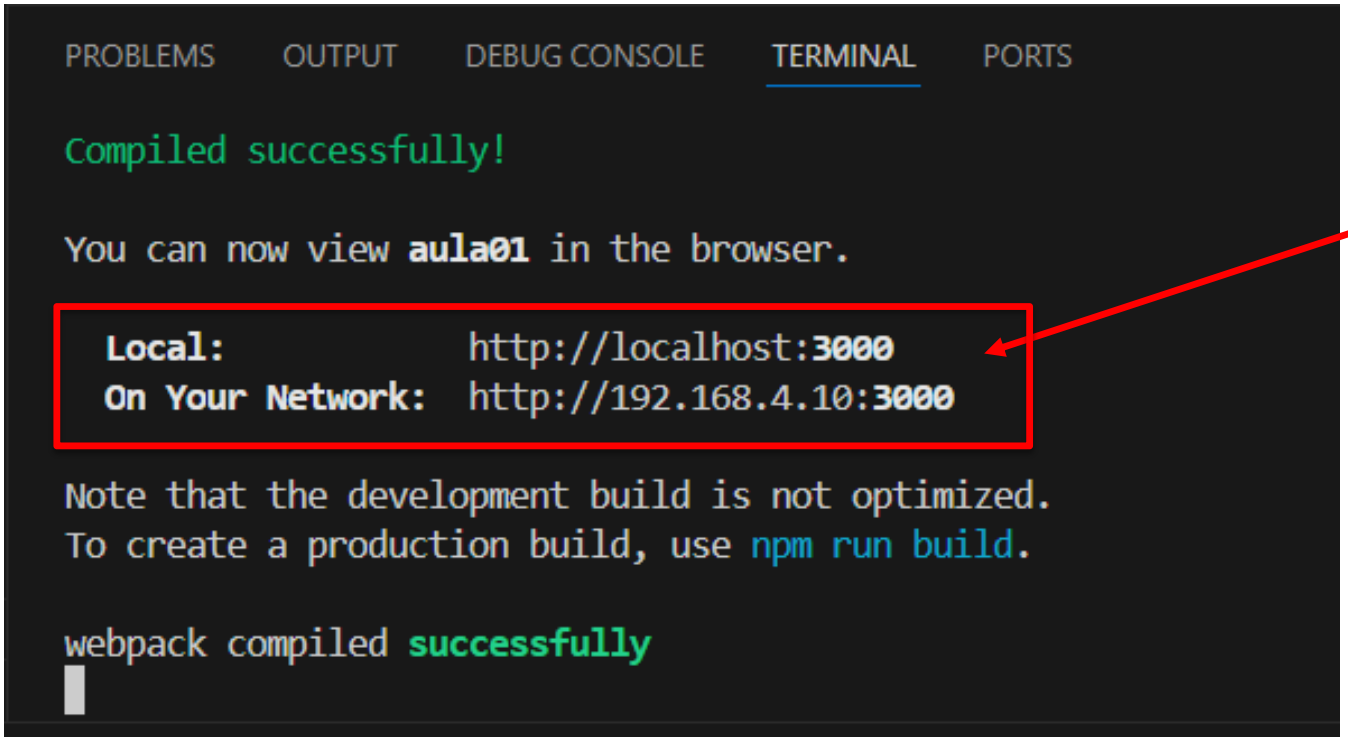

File Edit Selection View
aula01
EXPLORER
AULA01
node_modules
public
src
.gitignore
package-lock.json
package.json
README.md
Projeto Aberto
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Toggle Full Screen F11
Show Settings Ctrl + ,
OUTLINE
TIMELINE



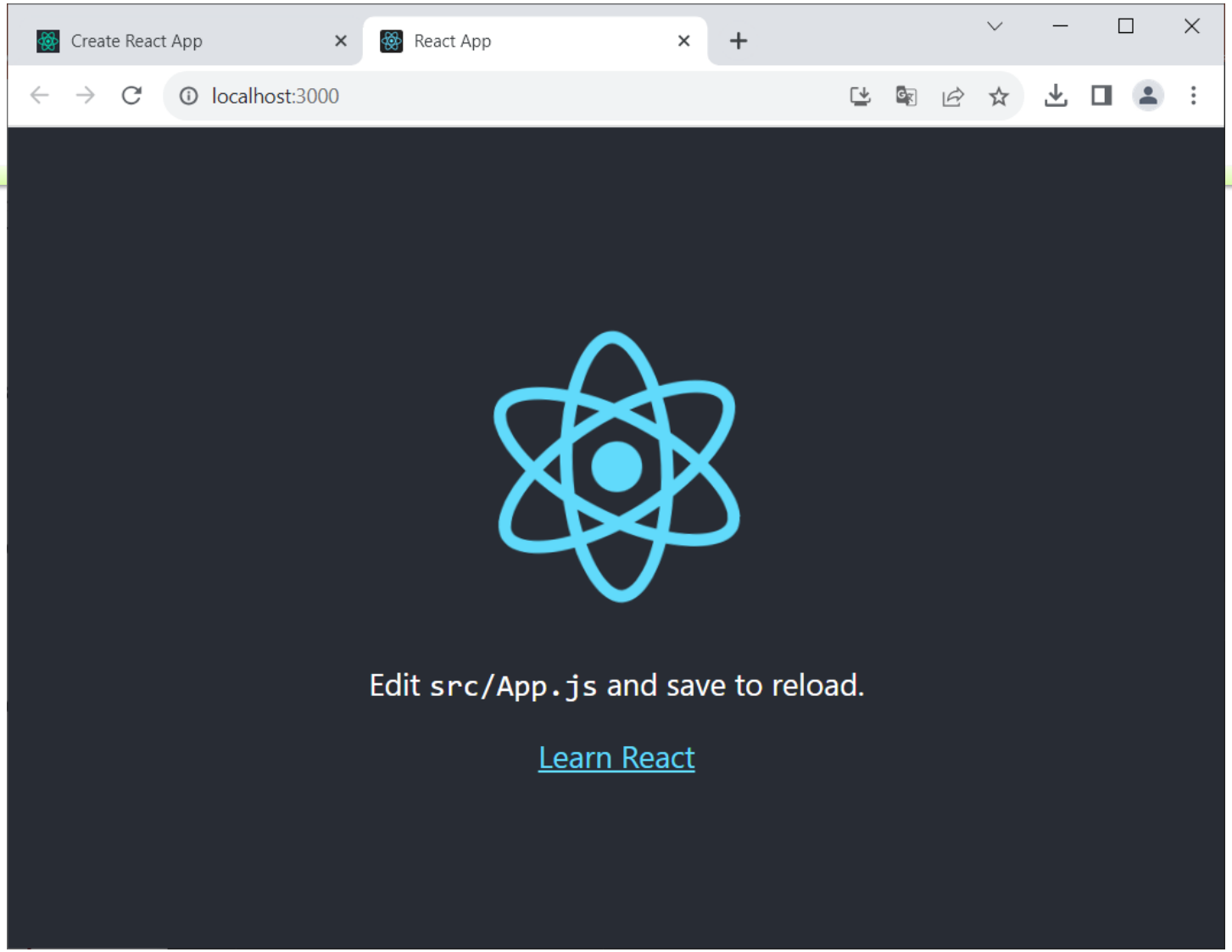
Clique para abrir o terminal no Visual Code


File Edit Selection View ···
aula01
EXPLORER
AULA01
node_modules
public
src
.gitignore
package-lock.json
package.json
README.md
C:\Users\admin\Desktop\aula01\package.json
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\admin\Desktop\aula01>
OUTLINE
TIMELINE
Clique para digitar o código


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\admin\Desktop\aula01> npm start
Digite
npm start



Servidor Local,
Servidor na Rede



Projeto React

Visualizando arquivos do Projeto

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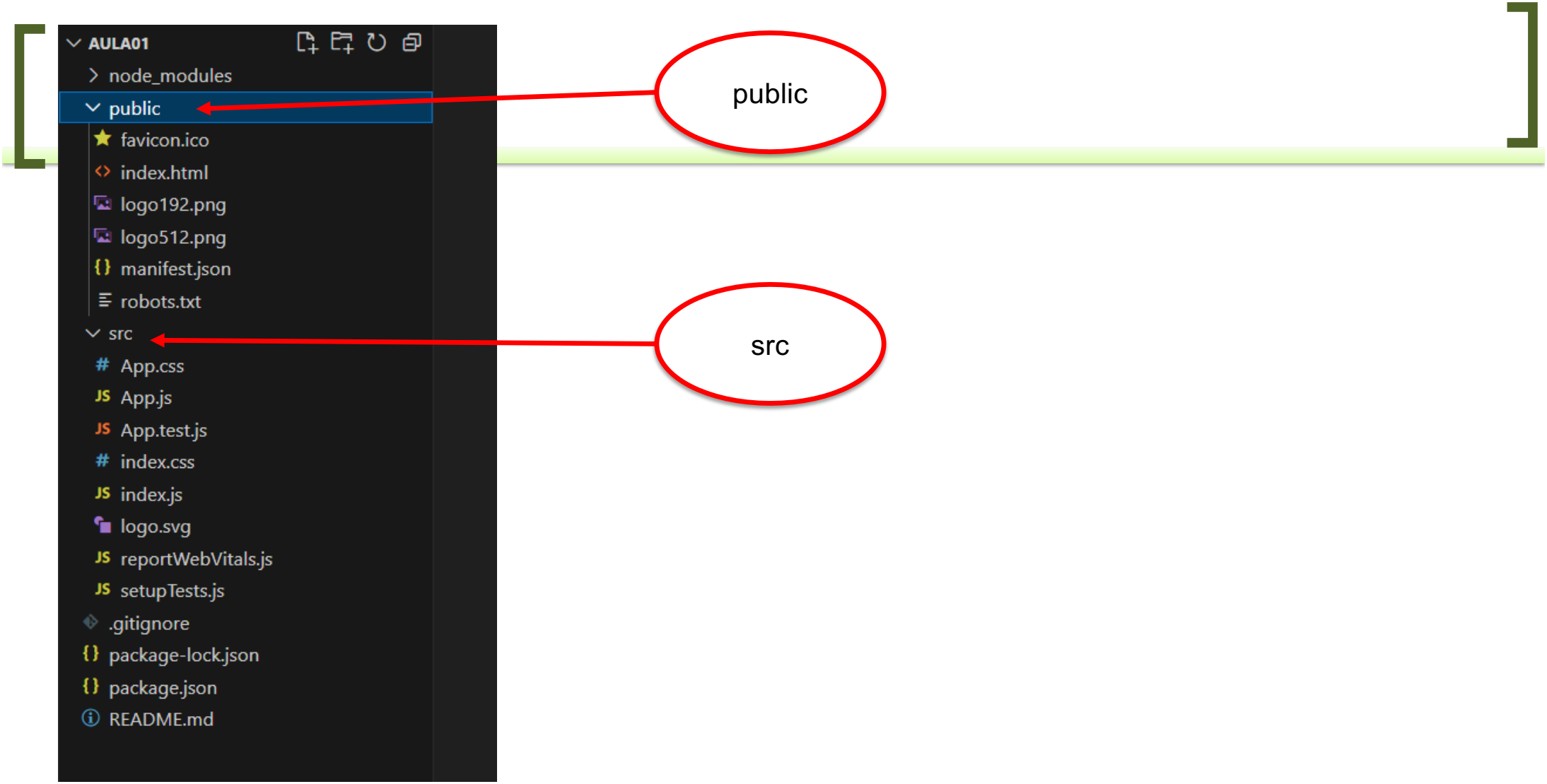
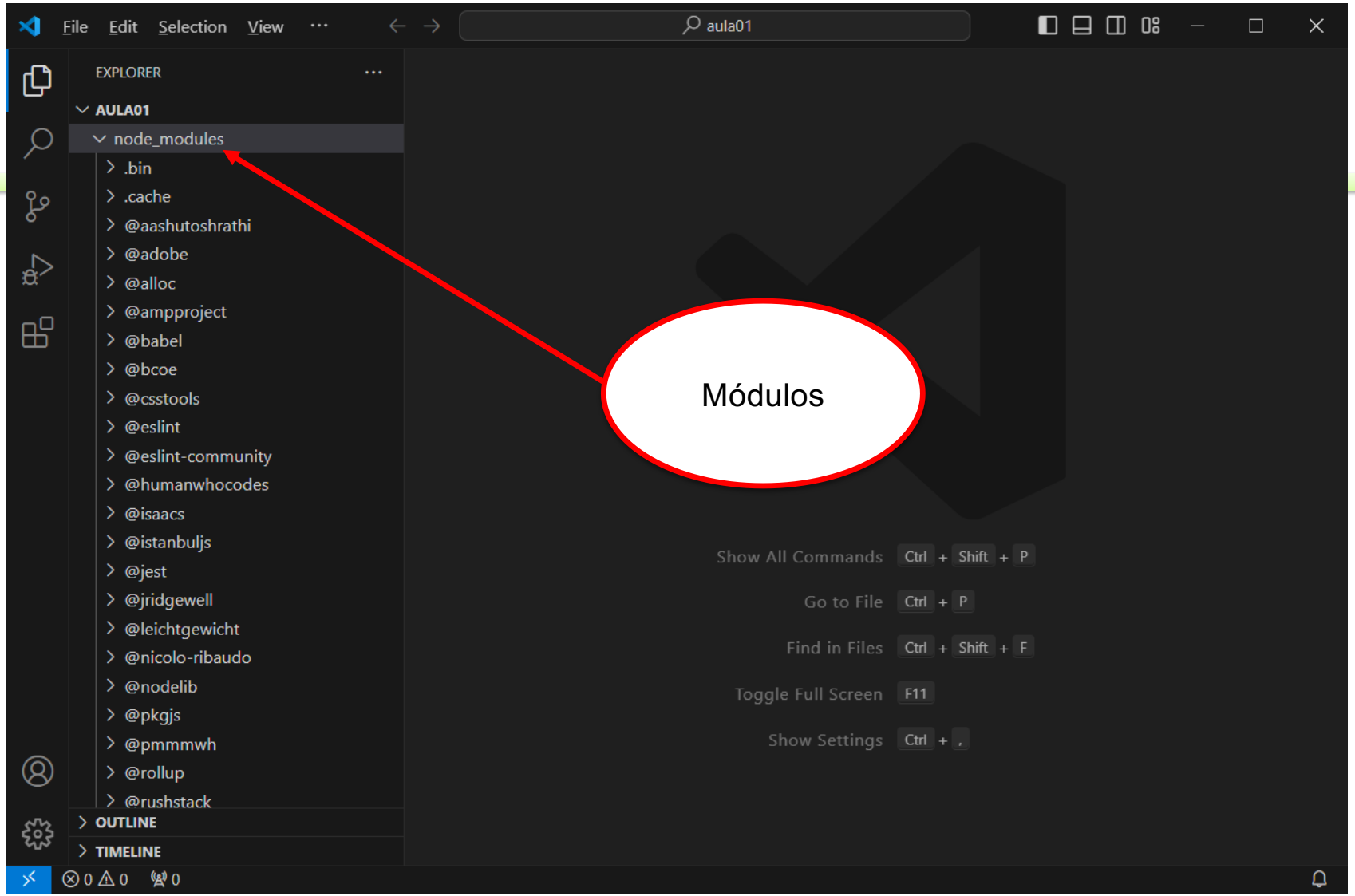

AULA01
node_modules
public
favicon.ico
index.html
logo192.png
logo512.png
manifest.json
robots.txt
src
App.css
App.js
App.test.js
index.css
index.js
logo.svg
reportWebVitals.js
setupTests.js
.gitignore
package-lock.json
package.json
README.md
public
src


File
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Selection
View
aula01
EXPLORER
AULA01
node_modules
.bin
.cache
@aashutoshrathi
@adobe
@alloc
@ampproject
@babel
@bcoe
@csstools
@eslint
@eslint-community
@humanwhocodes
@isaacs
@istanbuljs
@jest
@jridgewell
@leichtgewicht
@nicolo-ribaudo
@nodelib
@pkgjs
@pmmmwh
@rollup
@rushstack
OUTLINE
TIMELINE
Módulos
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Toggle Full Screen F11
Show Settings Ctrl + ,

Arquivo package.json

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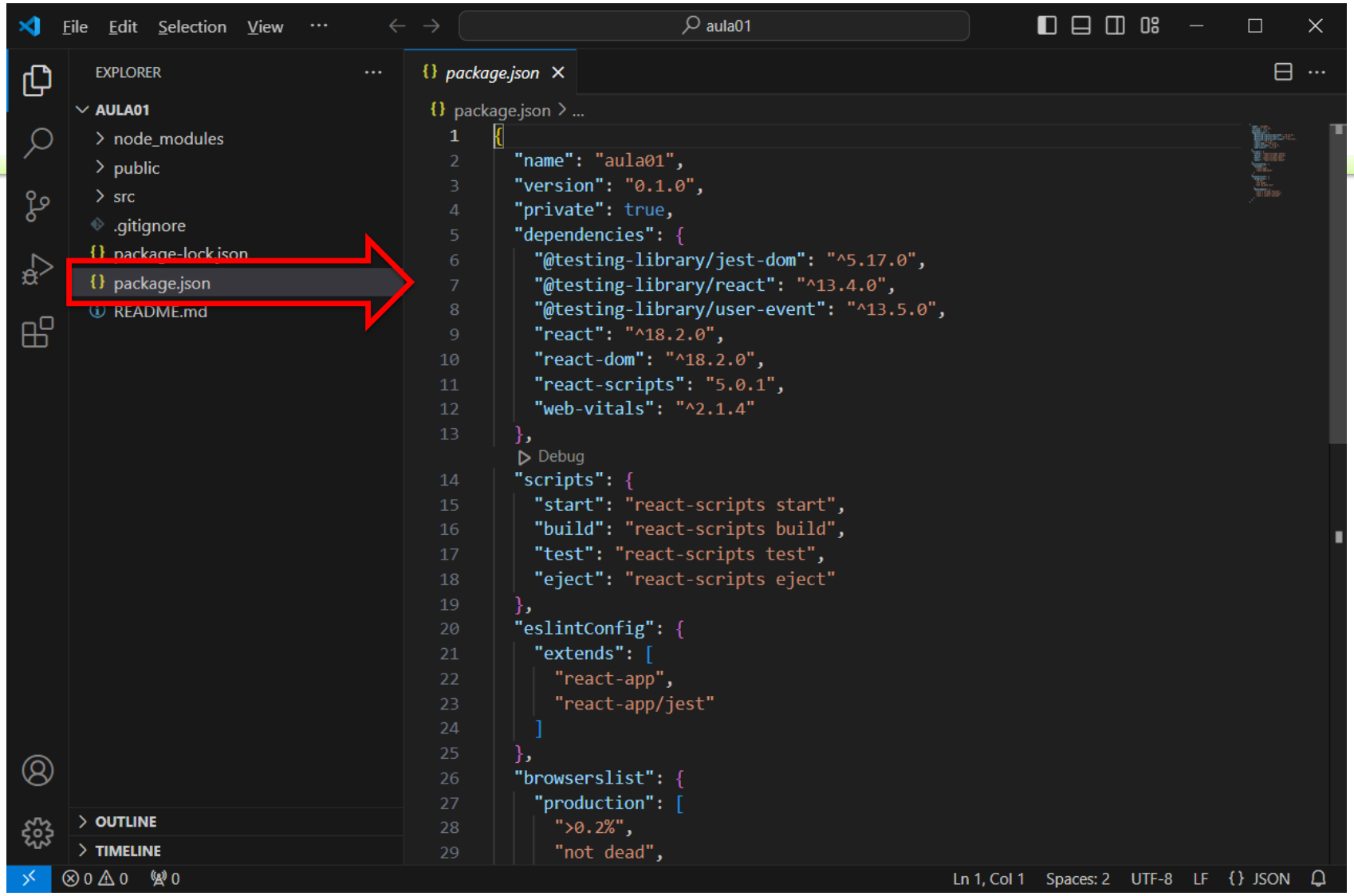
guilherme.souza183@fatec.sp.gov.br


File Edit Selection View
aula01
EXPLORER
AULA01
node_modules
public
src
.gitignore
package-lock.json
package.json
README.md
package.json
package.json > ...
{
"name": "aula01",
"version": "0.1.0",
"private": true,
"dependencies": {
"@testing-library/jest-dom": "^5.17.0",
"@testing-library/react": "^13.4.0",
"@testing-library/user-event": "^13.5.0",
"react": "^18.2.0",
"react-dom": "^18.2.0",
"react-scripts": "5.0.1",
"web-vitals": "^2.1.4"
},
Debug
"scripts": {
"start": "react-scripts start",
"build": "react-scripts build",
"test": "react-scripts test",
"eject": "react-scripts eject"
},
"eslintConfig": {
"extends": [
"react-app",
"react-app/jest"
]
},
"browserslist": {
"production": [
">0.2%",
"not dead",
OUTLINE
TIMELINE
Ln 1, Col 1
Spaces: 2
UTF-8
LF
{} JSON

Arquivo index.html

Guilherme Henrique de Souza
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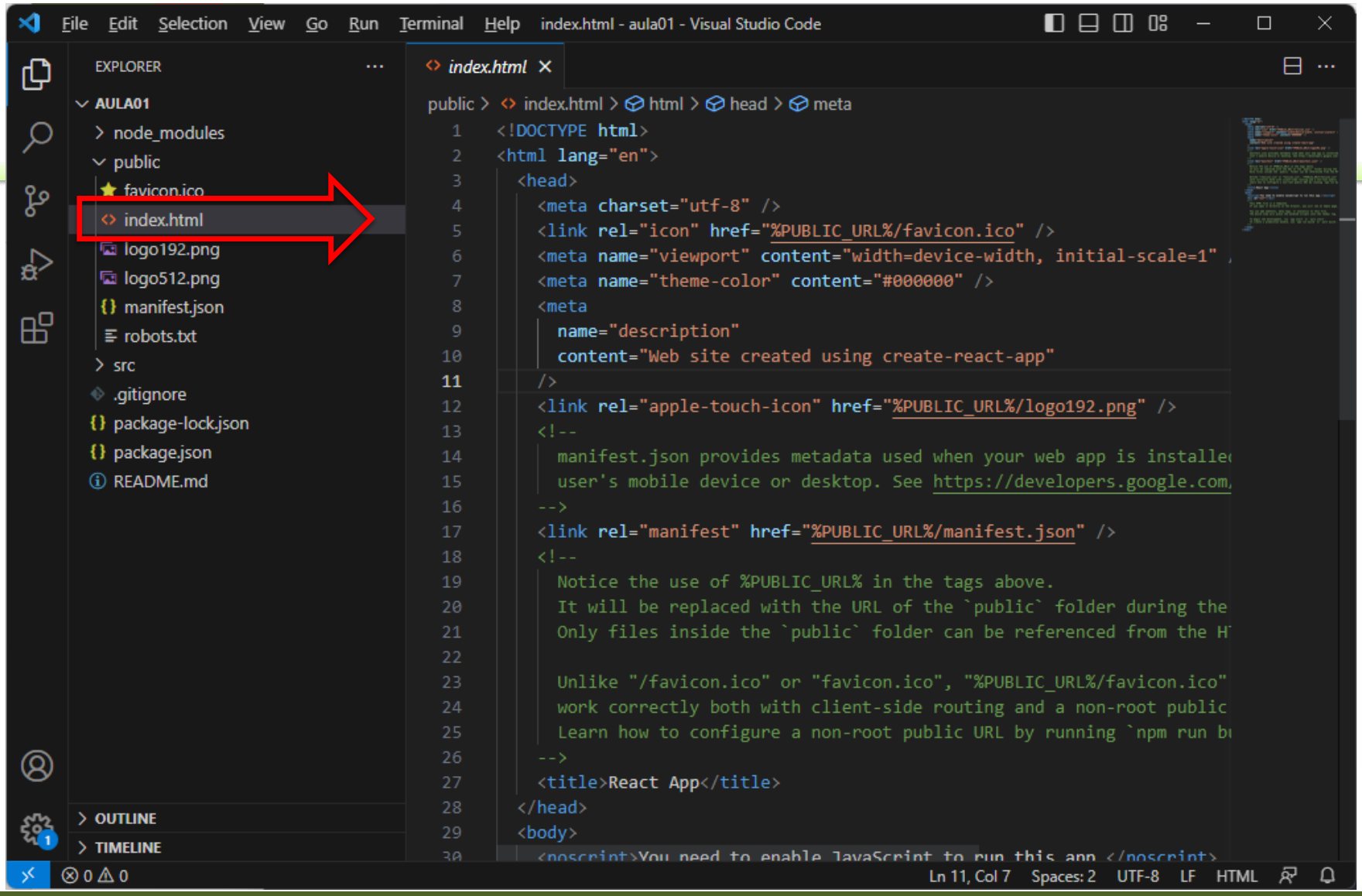
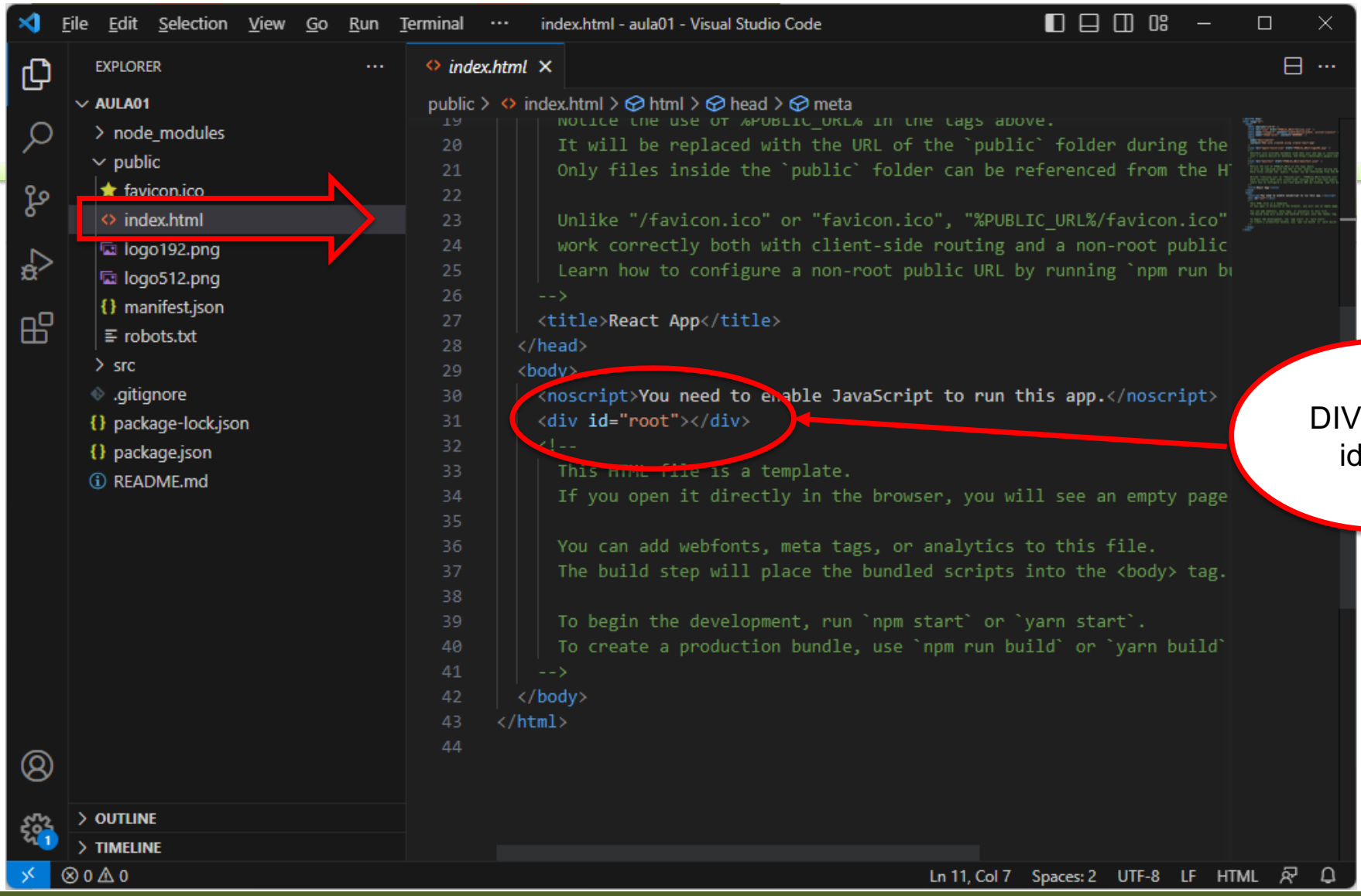

File Edit Selection View Go Run Terminal Help index.html - aula01 - Visual Studio Code
EXPLORER
AULA01
node_modules
public
favicon.ico
index.html
logo192.png
logo512.png
manifest.json
robots.txt
src
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
index.html
public > index.html > html > head > meta
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
<meta name="viewport" content="width=device-width, initial-scale=1"
<meta name="theme-color" content="#000000" />
<meta
name="description"
content="Web site created using create-react-app"
/>
<link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
<!--
manifest.json provides metadata used when your web app is installe
user's mobile device or desktop. See https://developers.google.com,
-->
<link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
<!--
Notice the use of %PUBLIC_URL% in the tags above.
It will be replaced with the URL of the `public` folder during the
Only files inside the `public` folder can be referenced from the H
Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico"
work correctly both with client-side routing and a non-root public
Learn how to configure a non-root public URL by running `npm run bu
-->
<title>React App</title>
</head>
<body>
<noscript>You need to enable JavaScript to run this app.</noscript>
Ln 11, Col 7 Spaces: 2 UTF-8 LF HTML


File Edit Selection View Go Run Terminal ··· index.html - aula01 - Visual Studio Code
EXPLORER
AULA01
node_modules
public
favicon.ico
index.html
logo192.png
logo512.png
manifest.json
robots.txt
src
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
index.html
public > index.html > html > head > meta
It will be replaced with the URL of the `public` folder during the
Only files inside the `public` folder can be referenced from the H
Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico"
work correctly both with client-side routing and a non-root public
Learn how to configure a non-root public URL by running `npm run bu
<title>React App</title>
</head>
<body>
<noscript>You need to enable JavaScript to run this app.</noscript>

This HTML file is a template.
If you open it directly in the browser, you will see an empty page
You can add webfonts, meta tags, or analytics to this file.
The build step will place the bundled scripts into the <body> tag.
To begin the development, run `npm start` or `yarn start`.
To create a production bundle, use `npm run build` or `yarn build`
</body>
</html>
DIV com o id root
Ln 11, Col 7 Spaces: 2 UTF-8 LF HTML

Arquivo index.js

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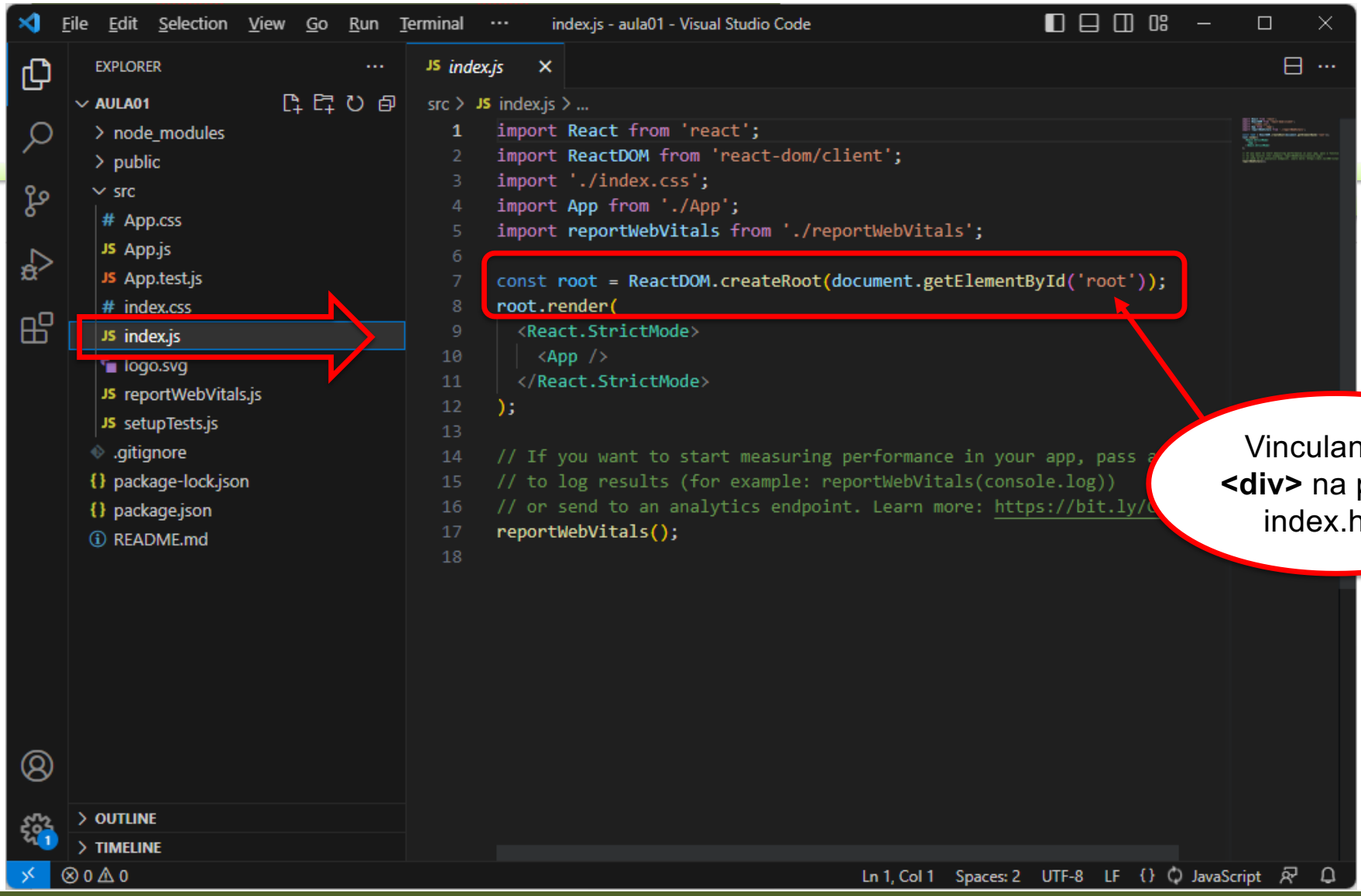
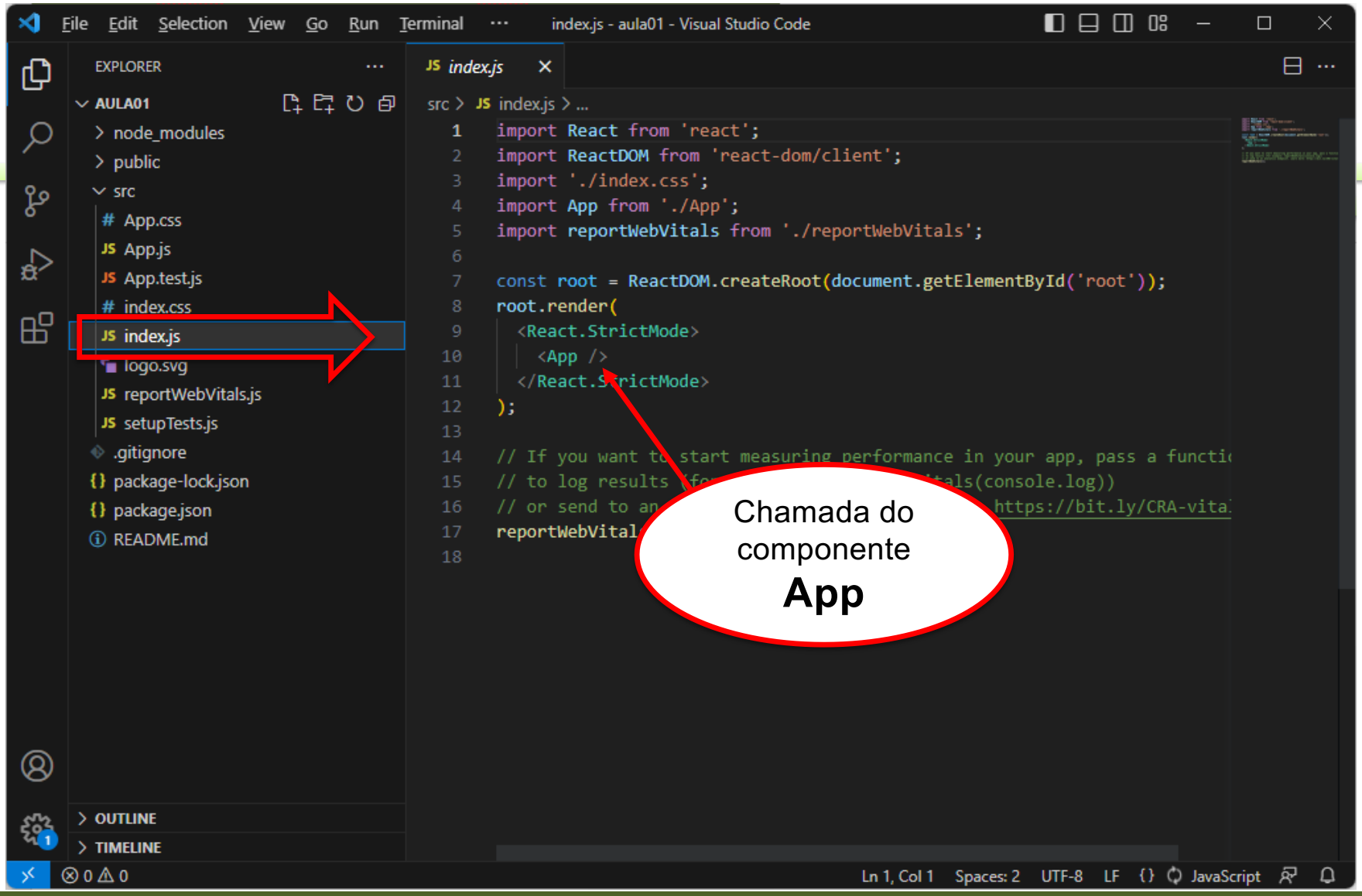
guilherme.souza183@fatec.sp.gov.br


File Edit Selection View Go Run Terminal ··· index.js - aula01 - Visual Studio Code
EXPLORER
AULA01
node_modules
public
src
App.css
App.js
App.test.js
index.css
index.js
logo.svg
reportWebVitals.js
setupTests.js
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
index.js
src > index.js > ...
import React from 'react';
import ReactDOM from 'react-dom/client';
import './index.css';
import App from './App';
import reportWebVitals from './reportWebVitals';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
<React.StrictMode>
<App />
</React.StrictMode>
);
// If you want to start measuring performance in your app, pass a
// to log results (for example: reportWebVitals(console.log))
// or send to an analytics endpoint. Learn more: https://bit.ly/
reportWebVitals();
Ln 1, Col 1 Spaces: 2 UTF-8 LF JavaScript
Vinculando o na pagina index.html


File Edit Selection View Go Run Terminal ··· index.js - aula01 - Visual Studio Code
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OUTLINE
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index.js
src > index.js > ...
import React from 'react';
import ReactDOM from 'react-dom/client';
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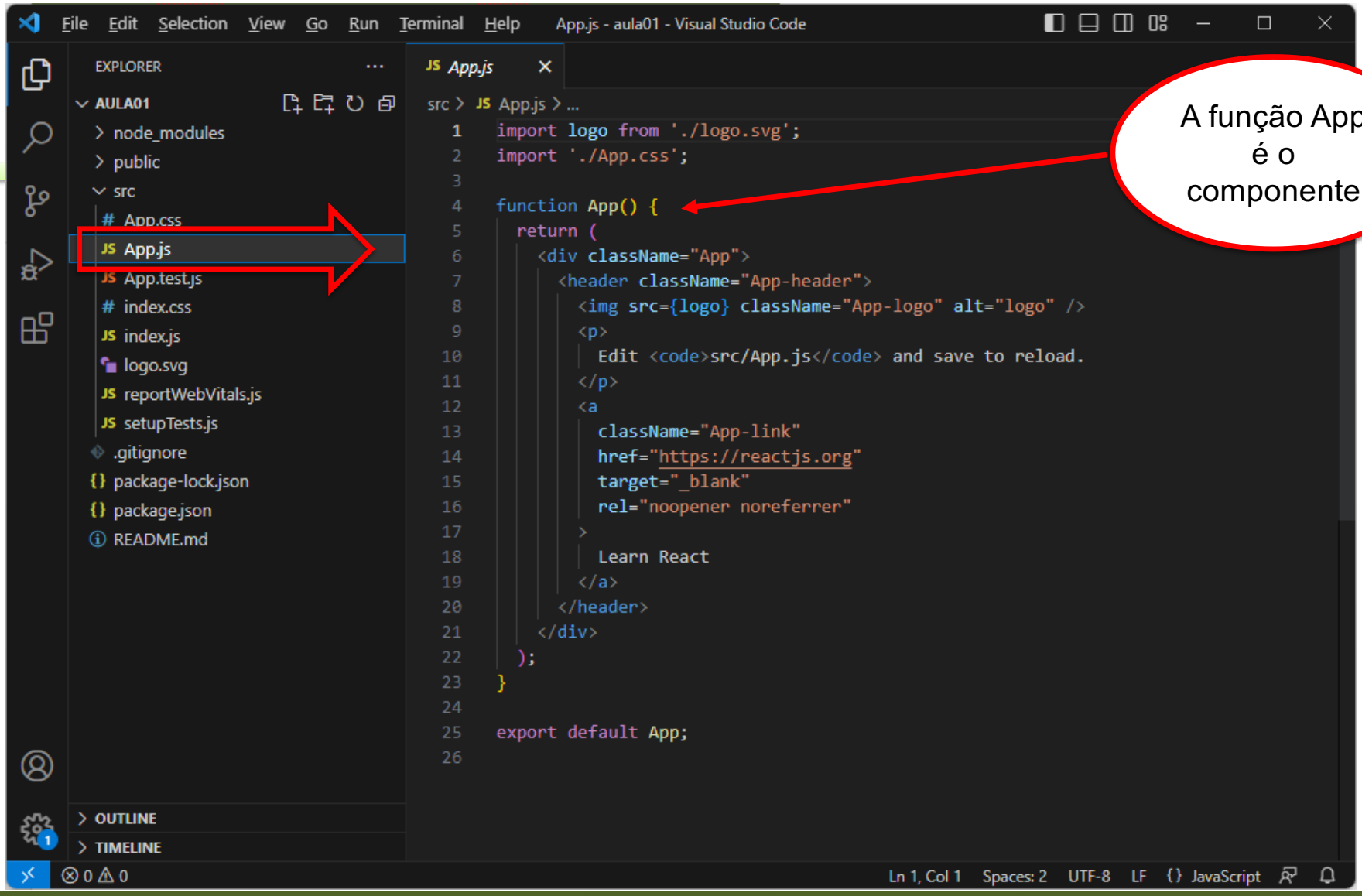
import App from './App';
import reportWebVitals from './reportWebVitals';
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
<React.StrictMode>
<App />
</React.StrictMode>
);
// If you want to start measuring performance in your app, pass a functi
// to log results (fo
// or send to an
reportWebVital
https://bit.ly/CRA-vita
Chamada do componente App
Ln 1, Col 1 Spaces: 2 UTF-8 LF JavaScript


File Edit Selection View Go Run Terminal Help App.js - aula01 - Visual Studio Code
EXPLORER
AULA01
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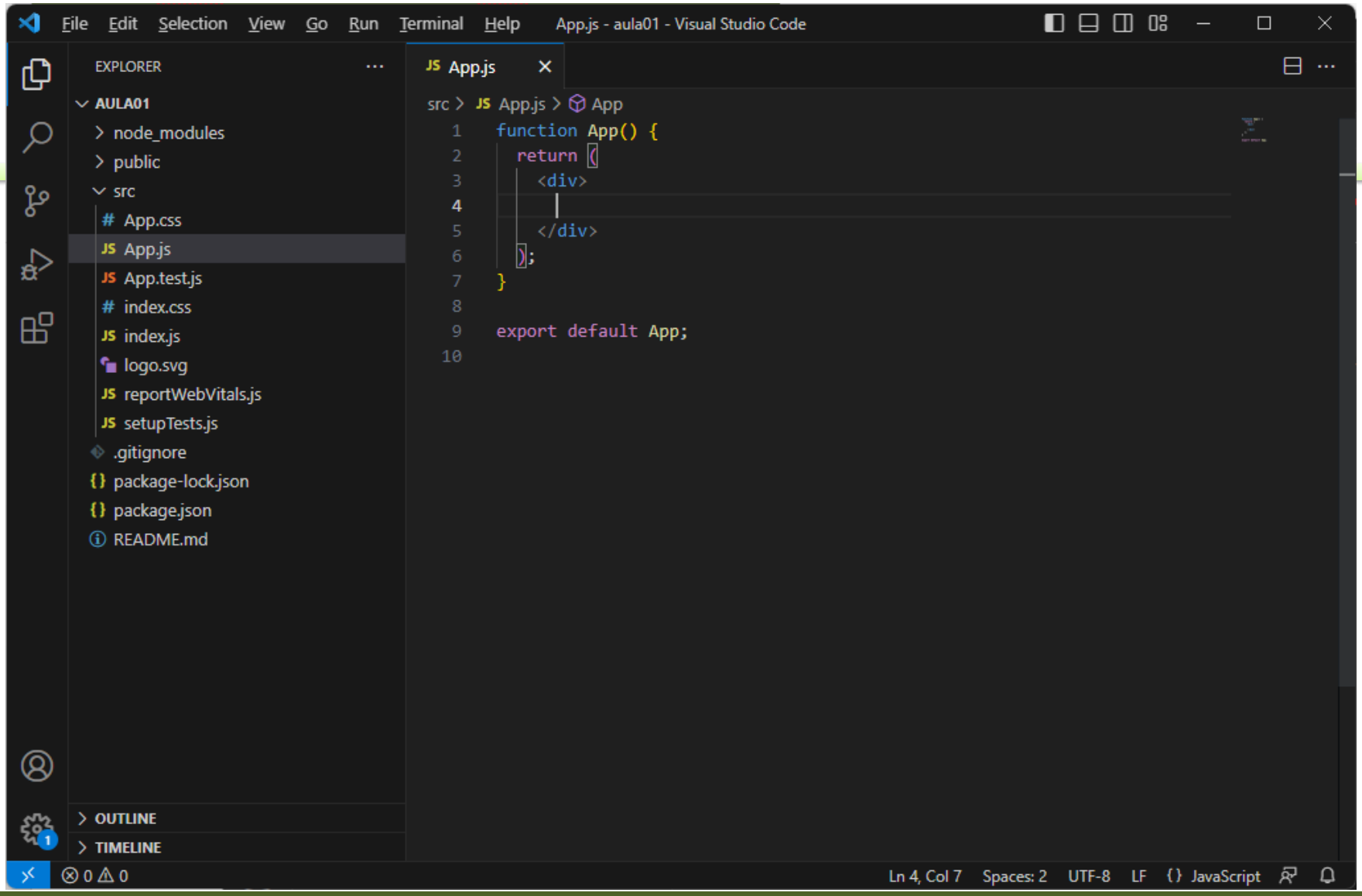
App.css
App.js
App.test.js
index.css
index.js
logo.svg
reportWebVitals.js
setupTests.js
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
App.js
src > App.js > ...
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5 return (
6
7 <header className="App-header">
8
9
10 Edit <code>src/App.js</code> and save to reload.
11
12 <a
13 className="App-link"
14 href="https://reactjs.org"
15 target="_blank"
16 rel="noopener noreferrer"
17 >
18 Learn React
19
20 </header>
21
22);
23 }
24
25 export default App;
26
A função App é o componente
Ln 1, Col 1 Spaces: 2 UTF-8 LF {} JavaScript


File Edit Selection View Go Run Terminal Help App.js - aula01 - Visual Studio Code
EXPLORER
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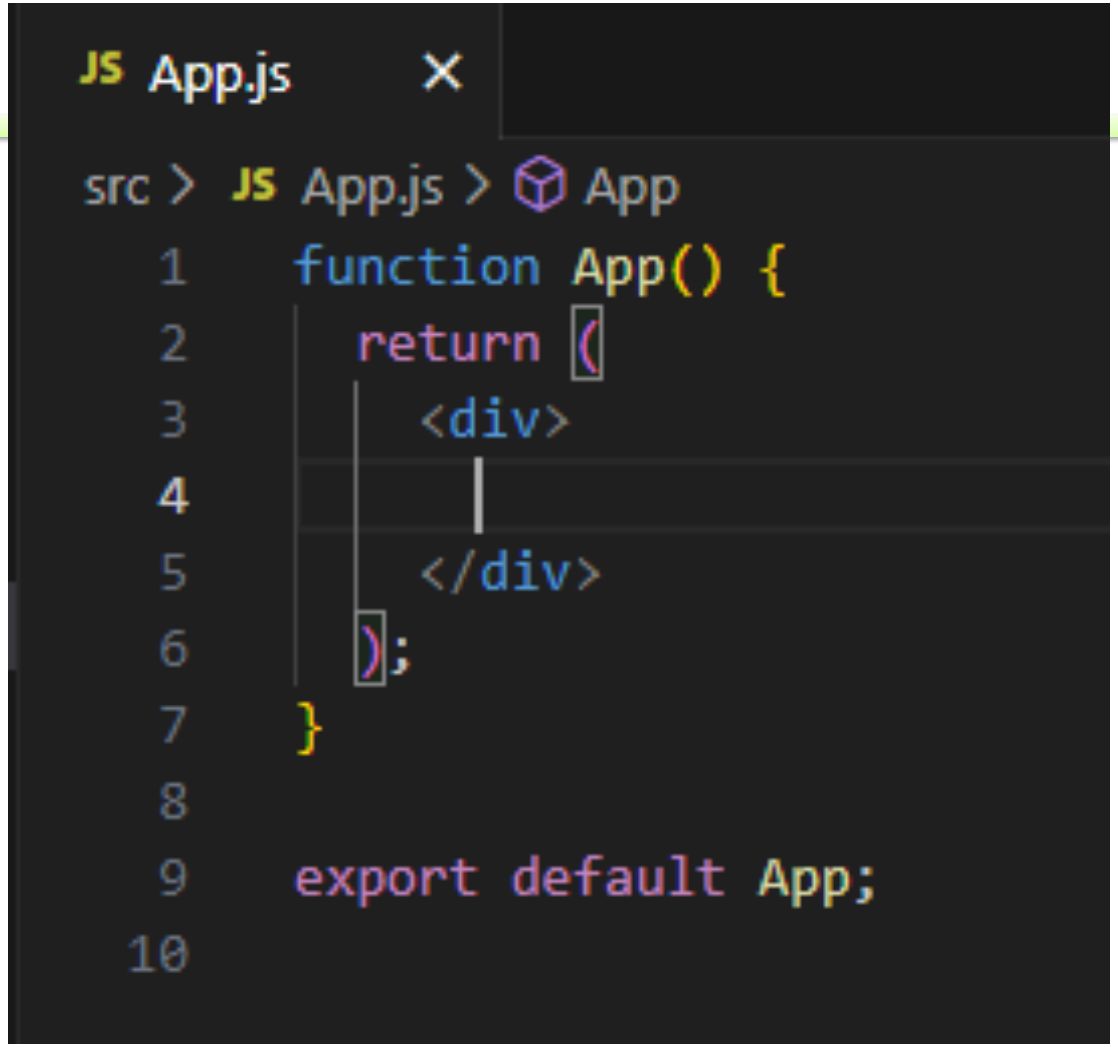
logo.svg
reportWebVitals.js
setupTests.js
.gitignore
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
App.js
src > App.js > App
function App() {
return (

);
}
export default App;
Ln 4, Col 7 Spaces: 2 UTF-8 LF JavaScript

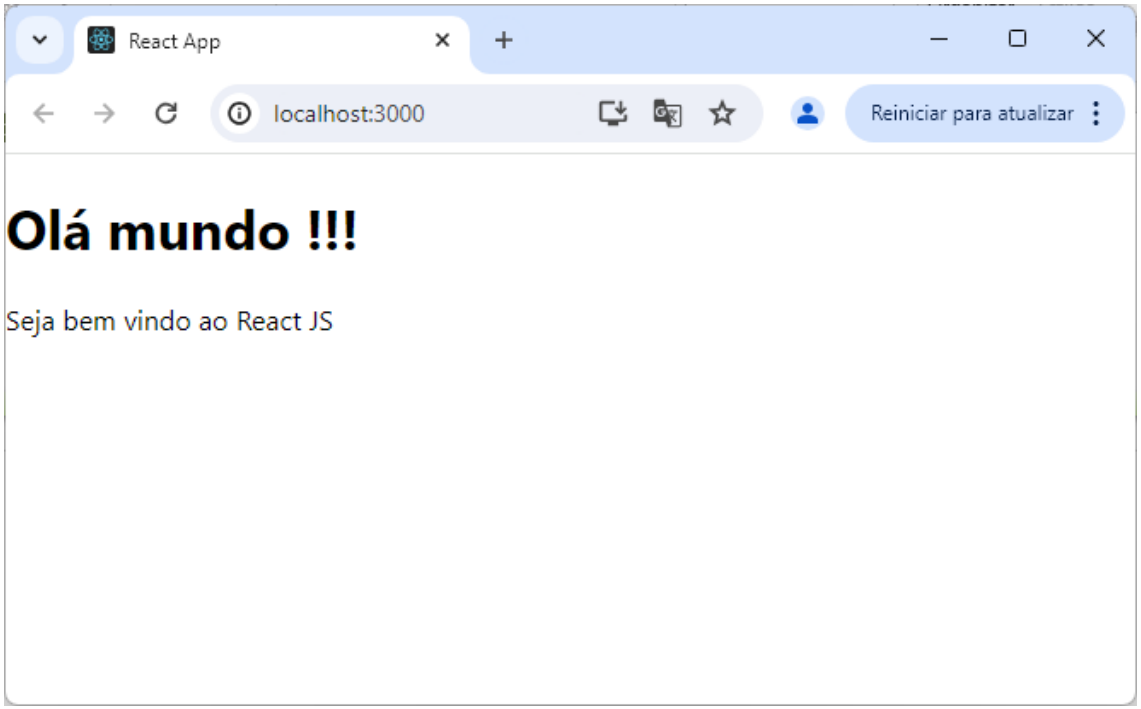

App.js
src > App.js > App
function App() {
return (

);
}
export default App;

App.js

src > App.js > App

```
1   function App() {
2     return (
3       <div>
4         <h1>Olá mundo !!!</h1>
5         <p>Seja bem vindo ao React JS</p>
6       </div>
7     );
8   }
9
10  export default App;
11
```


React App
localhost:3000
Reiniciar para atualizar
Olá mundo !!!
Seja bem vindo ao React JS

Duvidas

Vamos para o Replit

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