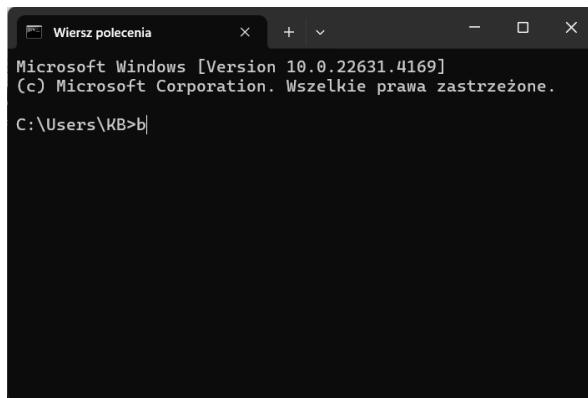


# Instrukcja instalacji node.js

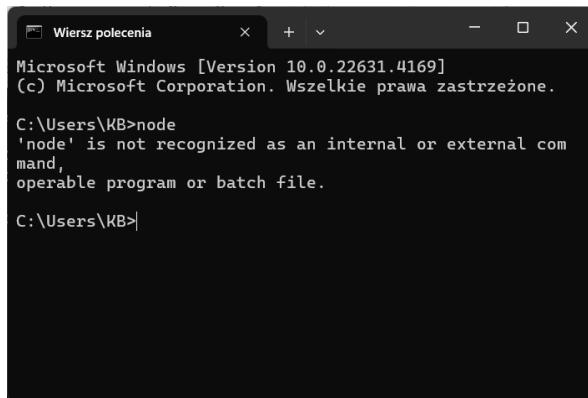
Sprawdzenie, czy node.js jest zainstalowany na komputerze z Windowsem

Uruchomienie konsoli – wpisujemy: cmd



```
Wiersz poleceń Microsoft Windows [Version 10.0.22631.4169] (c) Microsoft Corporation. Wszelkie prawa zastrzeżone. C:\Users\KB>b|
```

Sprawdzamy wersję node wpisując: node



```
Wiersz poleceń Microsoft Windows [Version 10.0.22631.4169] (c) Microsoft Corporation. Wszelkie prawa zastrzeżone. C:\Users\KB>node 'node' is not recognized as an internal or external command, operable program or batch file. C:\Users\KB>
```

## Pobranie właściwej wersji node.js i instalacja

Pobieramy najnowszą wersję – można wybrać język

The screenshot shows the official Node.js website at <https://nodejs.org/en>. The page features a dark background with the text "Run JavaScript Everywhere". A language dropdown menu is open on the right side, showing "English" as the selected option. Other languages listed include French, Indonesian, Português, Turkish, Ukrainian, Simplified Chinese, and Traditional Chinese.

Wybieramy z menu: Download

The screenshot shows the "Download Node.js®" page at <https://nodejs.org/en/download/prebuilt-installer>. The "Prebuilt Installer" tab is selected. A search bar at the top allows users to specify the version (e.g., v20.18.0 (LTS)), operating system (Windows), and architecture (x64). Below the search bar is a large green button labeled "Download Node.js v20.18.0". Further down the page, there are links to the changelog, blog post, and release notes for the specified version.

Zasadniczo dostępne są dwie wersje:

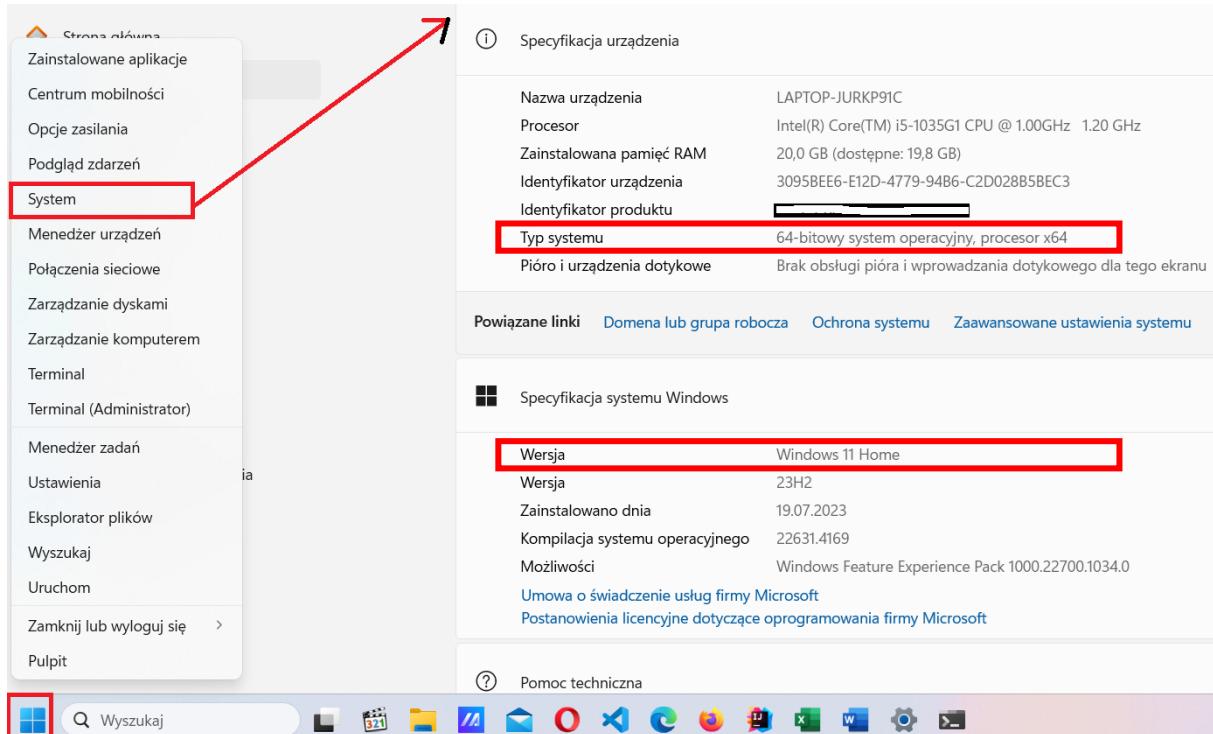
- Current – najnowsze funkcje, dodatki – interesująca do testów,
- LTS – stabilna – lepsza na potrzeby produkcyjne.

Zalecamy instalację wersji LTS.

W przypadku poszukiwania interesującej wcześniejszej wersji dobrze jest posłużyć się linkiem z listą dostępnych wcześniejszych wersji:

<https://nodejs.org/dist/>

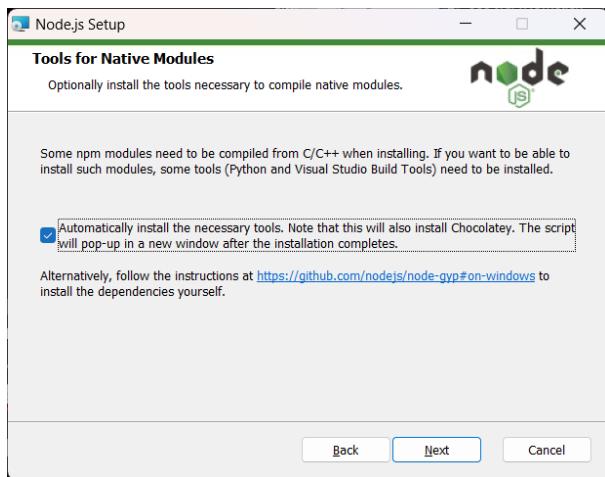
Jeżeli nie wiemy ile bitowy procesor/system winsows posiadamy (lub jaką wersję) to klikamy prawym przyciskiem myszy na logo w lewym dolnym okienku i na pojawiającym się menu wybieramy opcję System.



Po pobraniu pliku instalacyjnego uruchamiamy go.

Wybieramy opcje domyślne

Na ekranie:



Zaznaczamy automatycznie instaluj niezbędne narzędzia.

Pojawi się ekran:

```
Install Additional Tools for Nc X + ▾
=====
Tools for Node.js Native Modules Installation Script
=====

This script will install Python and the Visual Studio Build Tools, necessary
to compile Node.js native modules. Note that Chocolatey and required Windows
updates will also be installed.

This will require about 3 GiB of free disk space, plus any space necessary to
install Windows updates. This will take a while to run.

Please close all open programs for the duration of the installation. If the
installation fails, please ensure Windows is fully updated, reboot your
computer and try to run this again. This script can be found in the
Start menu under Node.js.

You can close this window to stop now. Detailed instructions to install these
tools manually are available at https://github.com/nodejs/node-gyp#on-windows

Press any key to continue . . . |
```

Naciskamy dowolny klawisz.

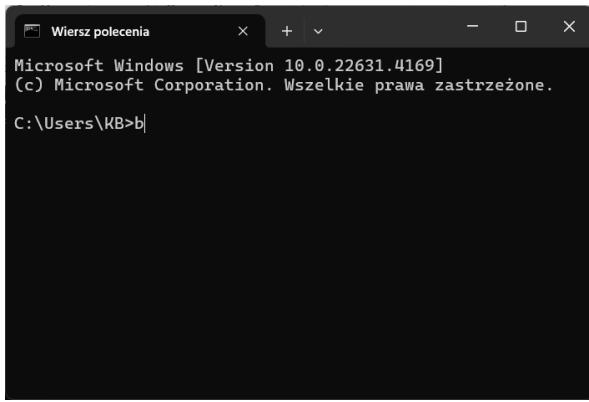
Pojawia się okno – wyrażamy zgodę na instalację.

```
Administrator: Windows PowerShell
Skipping installation because update KB3035131 does not apply to this operating system (Microsoft Windows 11 Home).
The upgrade of KB3035131 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading KB3033929 1.0.5... 100%
KB3033929 v1.0.5 [Approved]
KB3033929 package files upgrade completed. Performing other installation steps.
Skipping installation because update KB3033929 does not apply to this operating system (Microsoft Windows 11 Home).
The upgrade of KB3033929 was successful.
Software install location not explicitly set, it could be in package or
default install location of installer.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading vcredist140 14.40.33816... 100%
vcredist140 v14.40.33816 [Approved]
vcredist140 package files upgrade completed. Performing other installation steps.
Downloading vcredist140-x86
from 'https://download.visualstudio.microsoft.com/download/pr/5cc0a375-ebc5-4a27-8a76-aa43097a8949/ED1967C2AC27D806806
d121601b526f84e497AE1b99ED139C04C6B50147DF4A/VC_redist.x86.exe'
Progress: 100% - Completed download of C:\Users\KB\AppData\Local\Temp\chocolatey\vcredist140\14.40.33816\VC_redist.x86.e
xe (13.3 MB).
Download of VC_redist.x86.exe (13.3 MB) completed.
Hashes match.
Installing vcredist140-x86...
vcredist140-x86 has been installed.
Downloading vcredist140-x64 64 bit
from 'https://download.visualstudio.microsoft.com/download/pr/368cc6bf-087b-49f9-93e6-ab05b70a58e0/814E9DA5EC5E5D6A8FA
701999D1FC63BADD7F3ADC528E202590E981CB73E4A11/VC_redist.x64.exe'
Progress: 100% - Completed download of C:\Users\KB\AppData\Local\Temp\chocolatey\vcredist140\14.40.33816\VC_redist.x64.e
xe (24.32 MB).
Download of VC_redist.x64.exe (24.32 MB) completed.
Hashes match.
Installing vcredist140-x64...
vcredist140-x64 has been installed.
vcredist140 may be able to be automatically uninstalled.
The upgrade of vcredist140 was successful.
Software installed as 'exe', install location is likely default.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading vcredist2015 14.0.24215.20170201... 100%
vcredist2015 v14.0.24215.20170201 [Approved] - Possibly broken
vcredist2015 package files upgrade completed. Performing other installation steps.
The upgrade of vcredist2015 was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\vcredist2015'
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading python312 3.12.6... 95%
```

Następnie kończy się instalacja node.js.

Teraz można sprawdzić, czy została ona zainstalowana

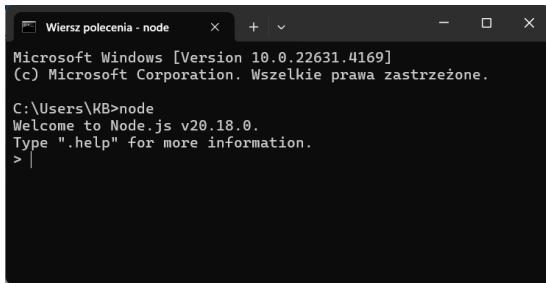
Uruchomienie z linii komend: cmd



```
Wiersz polecenia
Microsoft Windows [Version 10.0.22631.4169]
(c) Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\KB>b
```

Sprawdzamy wersję node wpisując: node



```
Wiersz polecenia - node
Microsoft Windows [Version 10.0.22631.4169]
(c) Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\KB>node
Welcome to Node.js v20.18.0.
Type ".help" for more information.
> |
```

## Pierwsza strona www - Hello world

Teraz w katalogu: C:\Users\KB

Można zrobić katalog node\_js

C:\Users\KB\node\_js

Następnie należy stworzyć (i zapisać) tam plik tekstowy o nazwie: hello\_word.js, który będzie nasłuchującym serwerem, z następującą zawartością:

```
var http = require('http');
// file: hello_world.js
// source: https://www.w3schools.com/nodejs/
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/html'});
  res.end('Hello World!');
}).listen(8080);
```

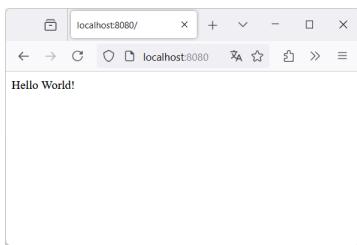
### 2 wersja (do sprawdzenia)

```
const { createServer } = require('node:http');
const hostname = '127.0.0.1';
const port = 3000;
const server = createServer((req, res) => {
  res.statusCode = 200;
  res.setHeader('Content-Type', 'text/plain');
  res.end('Hello World'))));
server.listen(port, hostname, () => {
  console.log(`Server running at
http://${hostname}:${port}/`);});
```

Dalej należy uruchomić ten program go w konsoli:

C:\Users\Your Name>node hello\_word.js

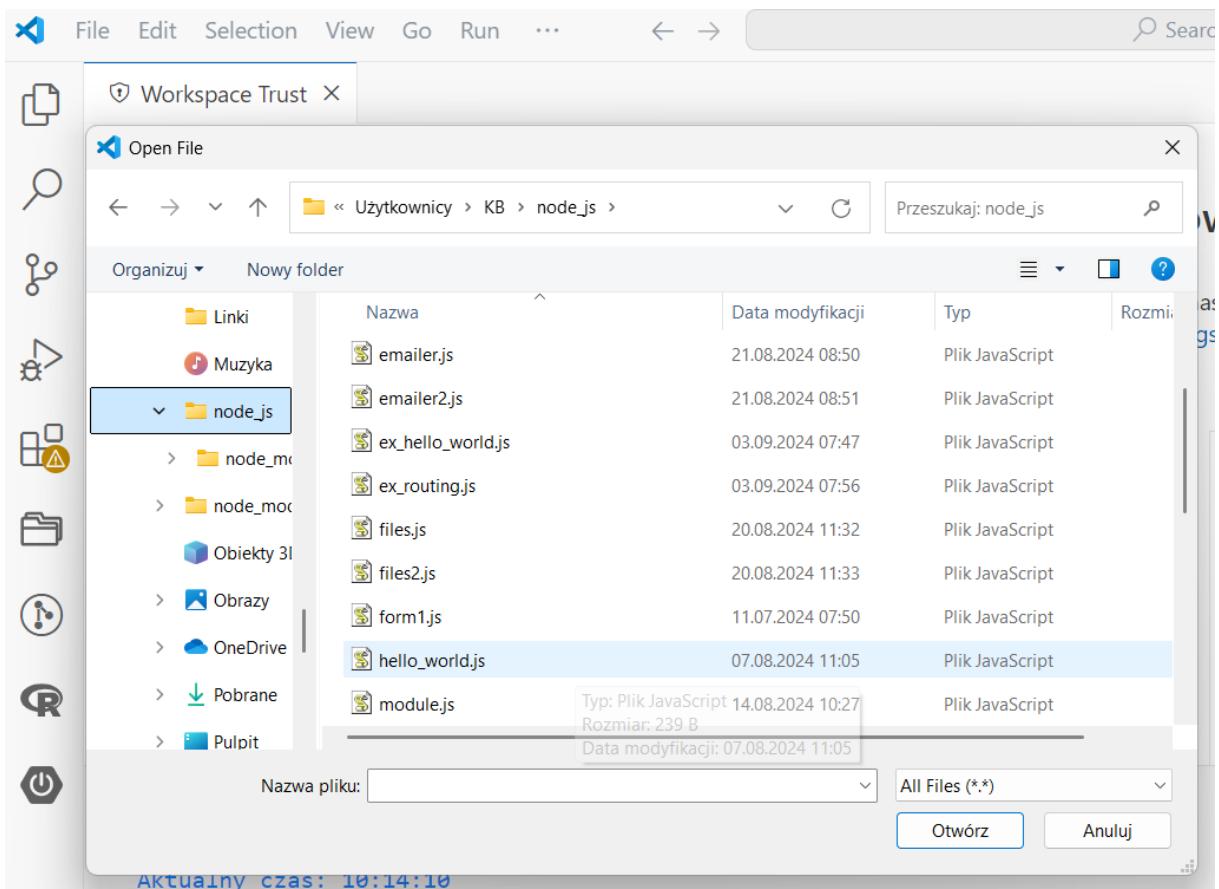
I sprawdzić efekt w przeglądarce



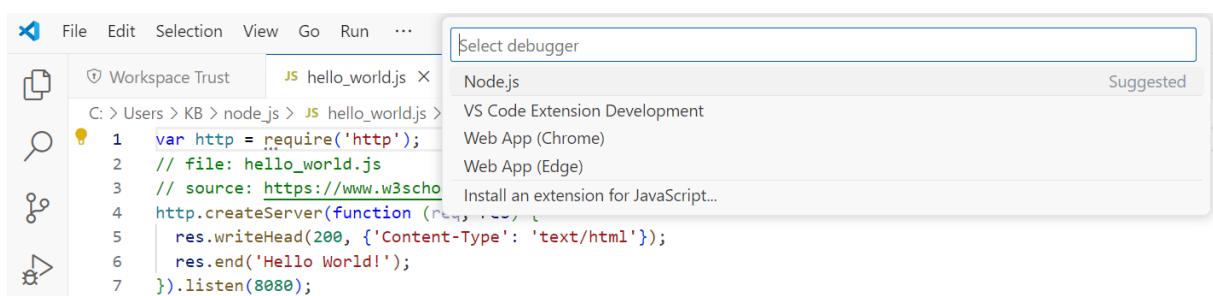
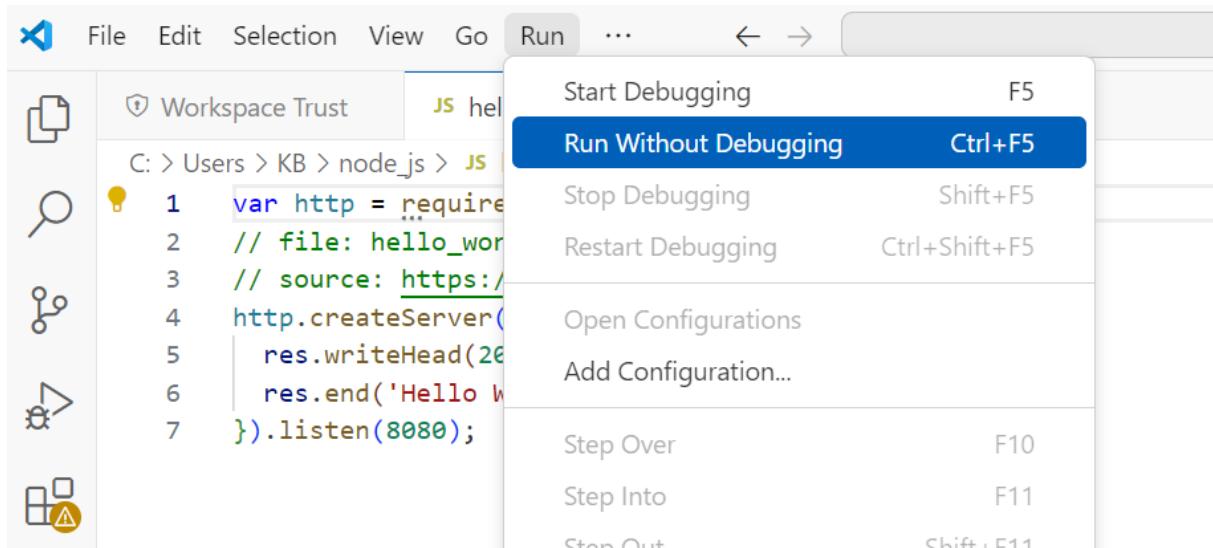
Aby zakończyć działanie programu w konsoli należy nacisnąć **Ctrl+C**

### **Alternatywny wariant zamiast uruchamiania w konsoli:**

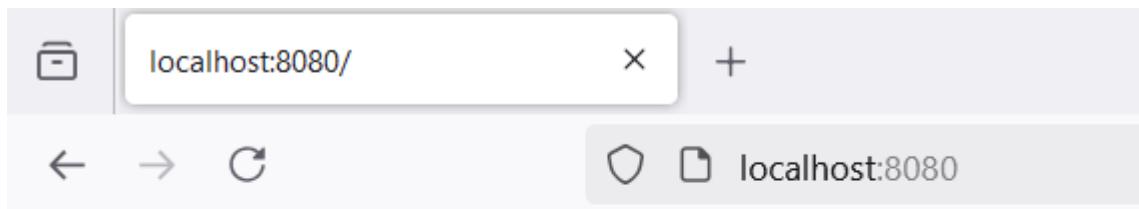
Można otworzyć plik w Visual Studio Code:



A następnie uruchomić:



A następnie zobaczyć, czy to działa:



Instrukcja Instalacji dostępna jest m.in. tutaj:

<https://www.youtube.com/watch?v=ATBtiMDFUcA>