Practical Assignment -1

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Semester : MSC IT-7
Type : Practical
Date : 19-07-2025
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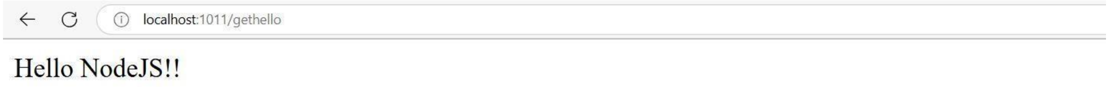
Question - 1 : Hello Node!

Output :



Hello NodeJS!!

Description : after routing on url localhost:1011/gethello, we will get this Output using express.

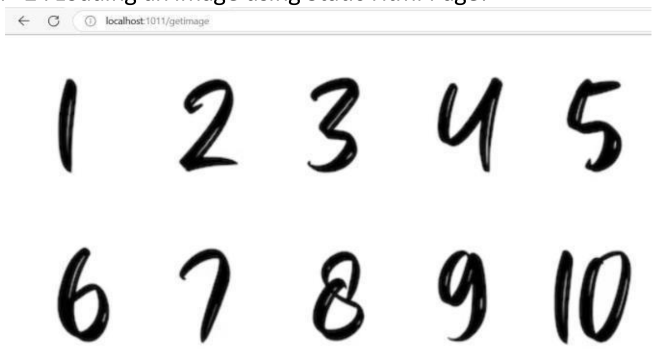
AJAX CALL

Get Response

Node - Ajax

Hello NodeJS!!

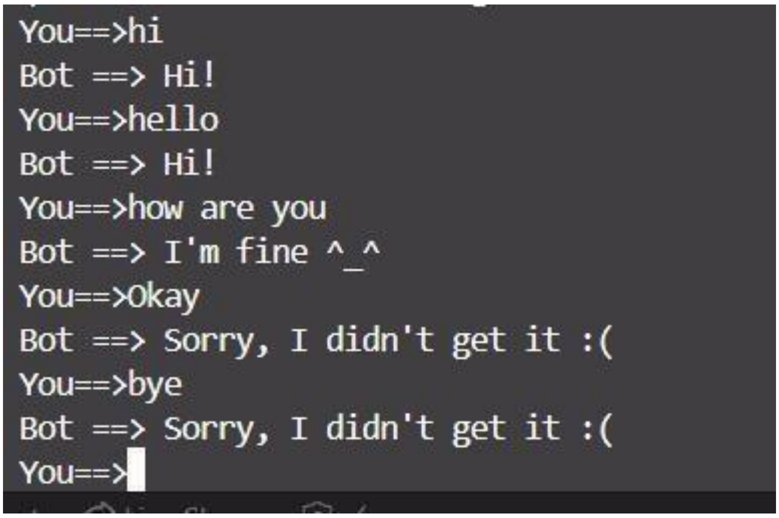
Question - 2 : Loading an Image using Static Html Page!



Output :

Question 3 : Chatbot

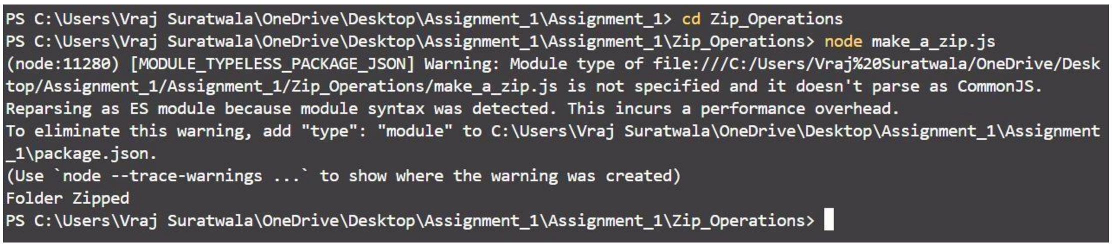
Output :



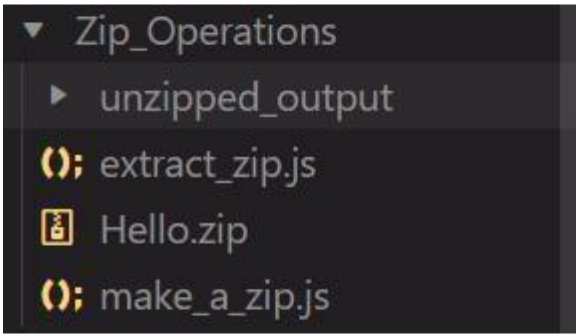
```
You==>hi
Bot ==> Hi!
You==>hello
Bot ==> Hi!
You==>how are you
Bot ==> I'm fine ^_^
You==>Okay
Bot ==> Sorry, I didn't get it :(
You==>bye
Bot ==> Sorry, I didn't get it :(
You==>
```

Question 4-5 : Zip Operation

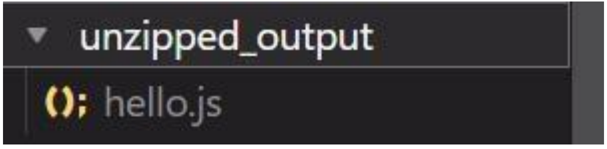
Output : making a zip



```
PS C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1> cd Zip_Operations
PS C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1\Zip_Operations> node make_a_zip.js
(node:11280) [MODULE_TYPELESS_PACKAGE_JSON] Warning: Module type of file:///C:/Users/Vraj%20Suratwala/OneDrive/Desk
top/Assignment_1/Assignment_1/Zip_Operations/make_a_zip.js is not specified and it doesn't parse as CommonJS.
Reparsing as ES module because module syntax was detected. This incurs a performance overhead.
To eliminate this warning, add "type": "module" to C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment
_1\package.json.
(Use `node --trace-warnings ...` to show where the warning was created)
Folder Zipped
PS C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1\Zip_Operations>
```



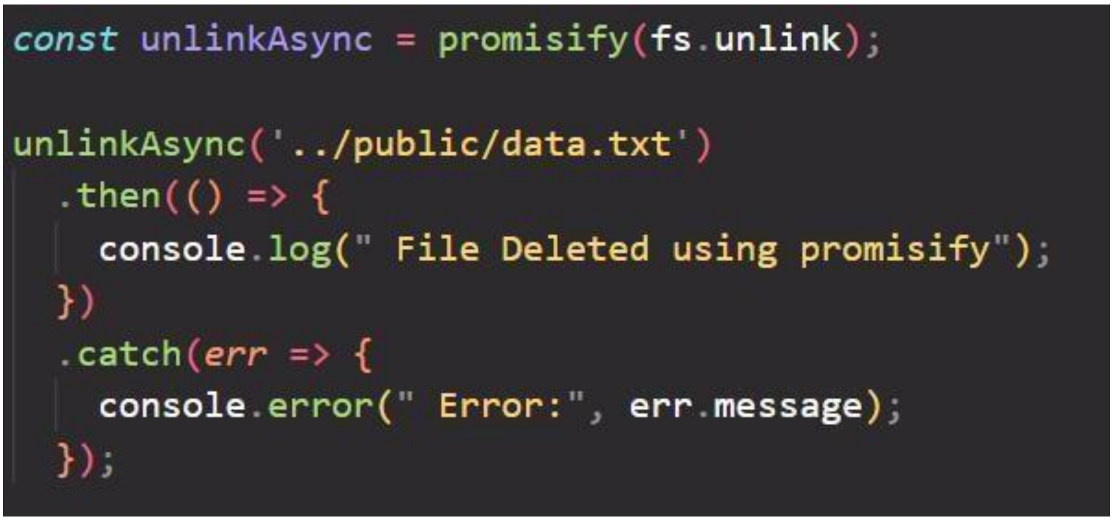
```
▼ Zip_Operations
  ▶ unzipped_output
  extract_zip.js
  Hello.zip
  make_a_zip.js
```



```
▼ unzipped_output
  hello.js
```

Question - 6 : Promisify

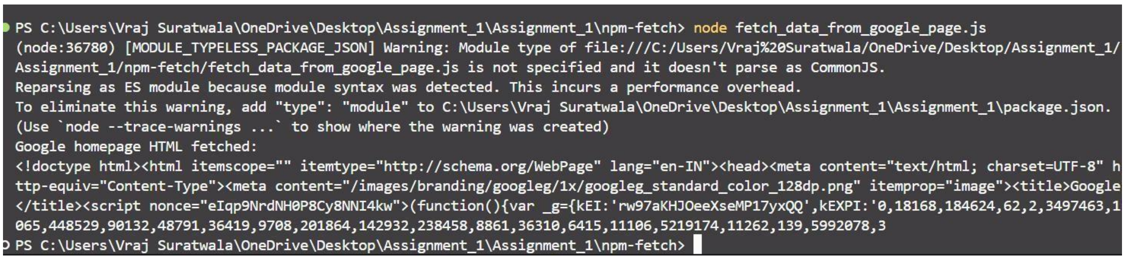
Code :



```
const unlinkAsync = promisify(fs.unlink);

unlinkAsync('../public/data.txt')
  .then(() => {
    console.log(" File Deleted using promisify");
  })
  .catch(err => {
    console.error(" Error:", err.message);
  });
```

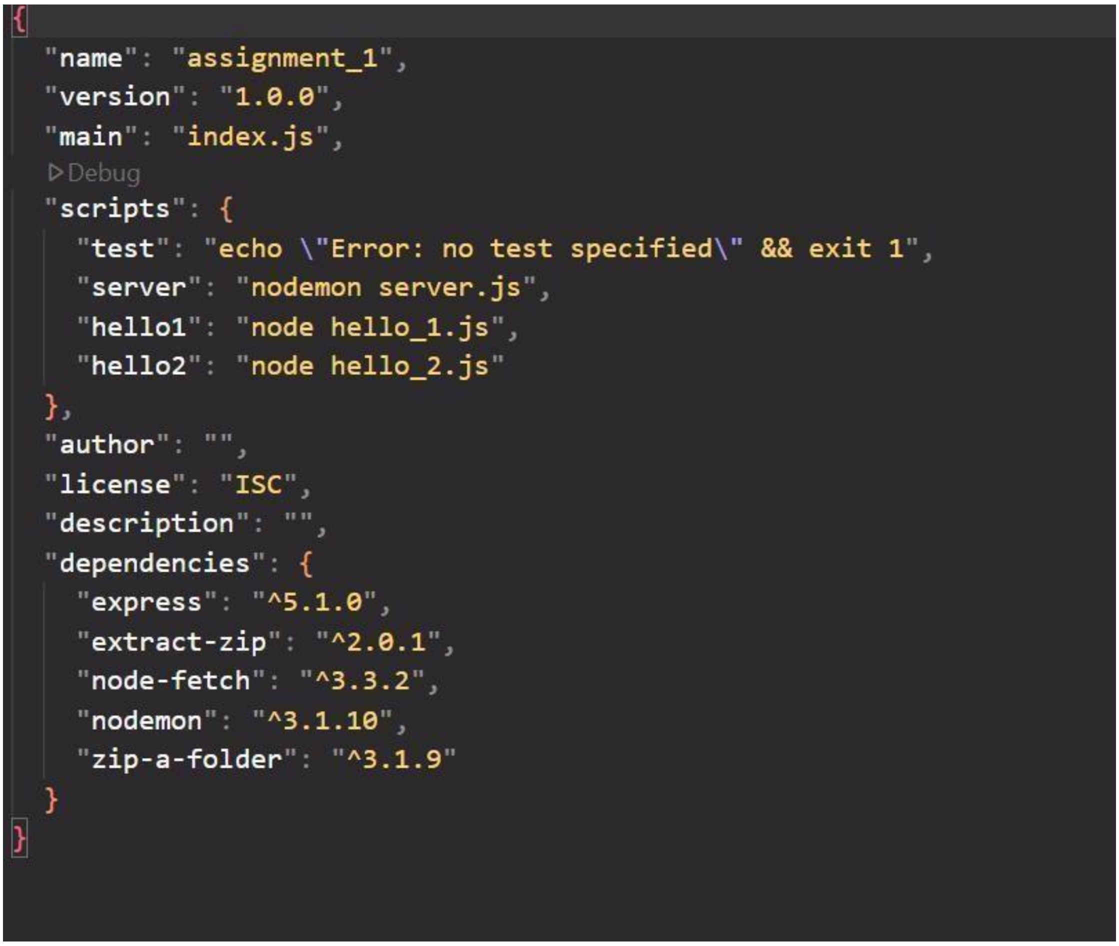
Question -7 :

Output :



```
PS C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1\npm-fetch> node fetch_data_from_google_page.js
(node:36780) [MODULE_TYPELESS_PACKAGE_JSON] Warning: Module type of file:///C:/Users/Vraj%20Suratwala/OneDrive/Desktop/Assignment_1/
Assignment_1/npm-fetch/fetch_data_from_google_page.js is not specified and it doesn't parse as CommonJS.
Reparsing as ES module because module syntax was detected. This incurs a performance overhead.
To eliminate this warning, add "type": "module" to C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1\package.json.
(Use `node --trace-warnings ...` to show where the warning was created)
Google homepage HTML fetched:
<!doctype html><html itemscope="" itemtype="http://schema.org/WebPage" lang="en-IN"><head><meta content="text/html; charset=UTF-8" h
ttp-equiv="Content-Type"><meta content="/images/branding/googleg/1x/googleg_standard_color_128dp.png" itemprop="image"><title>Google
</title><script nonce="eIqp9NrdNH0P8Cy8NNI4kw">(function(){var _g={kEI:'rw97aKHJOeeXseMP17yxQQ',kEXPI:'0,18168,184624,62,2,3497463,1
065,448529,90132,48791,36419,9708,201864,142932,238458,8861,36310,6415,11106,5219174,11262,139,5992078,3
PS C:\Users\Vraj Suratwala\OneDrive\Desktop\Assignment_1\Assignment_1\npm-fetch>
```

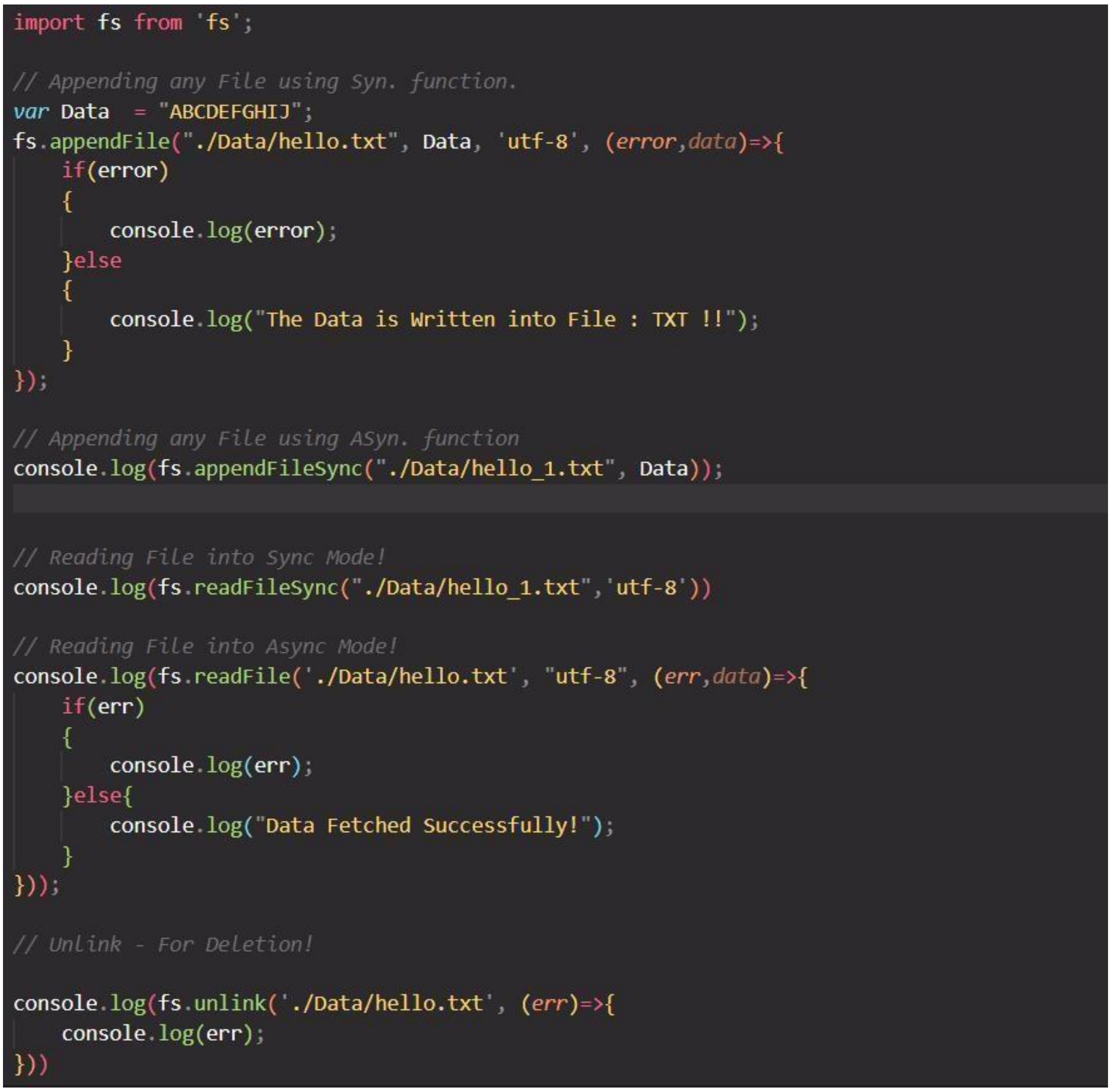
Question -8 : Make a Scripts in json.package
Output :



```
{
  "name": "assignment_1",
  "version": "1.0.0",
  "main": "index.js",
  ▷ Debug
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1",
    "server": "nodemon server.js",
    "hello1": "node hello_1.js",
    "hello2": "node hello_2.js"
  },
  "author": "",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "express": "^5.1.0",
    "extract-zip": "^2.0.1",
    "node-fetch": "^3.3.2",
    "nodemon": "^3.1.10",
    "zip-a-folder": "^3.1.9"
  }
}
```

Question 9 : fs module program

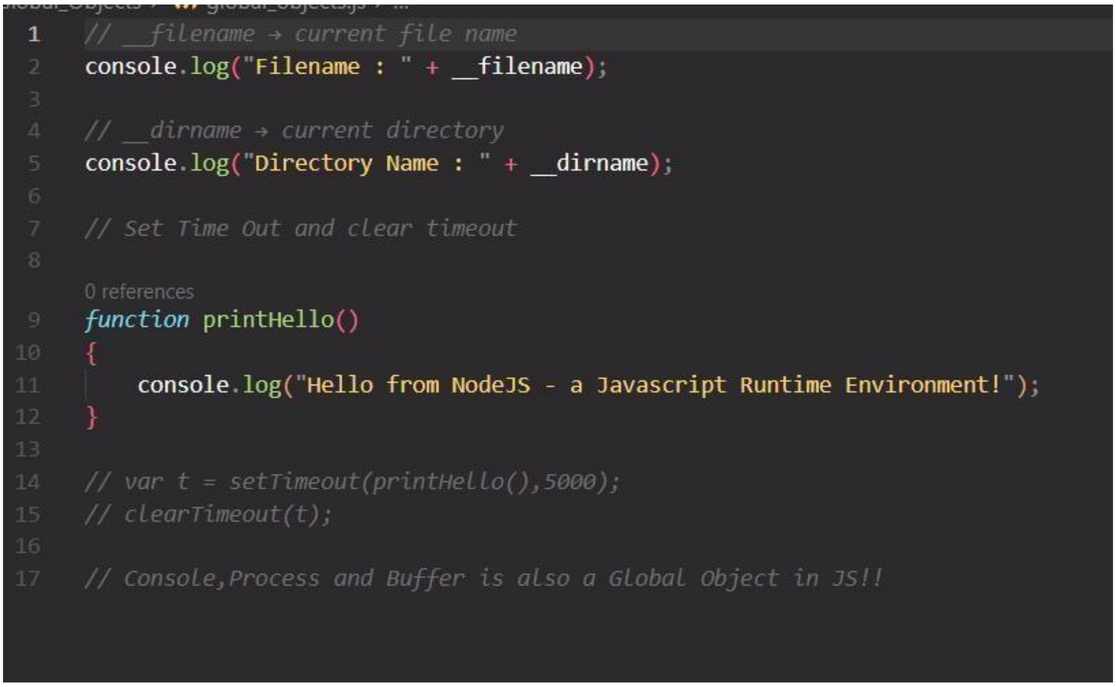
Output :



```
import fs from 'fs';

// Appending any File using Syn. function.
var Data  = "ABCDEFGHIJ";
fs.appendFile("./Data/hello.txt", Data, 'utf-8', (error,data)=>{
    if(error)
    {
        console.log(error);
    }else
    {
        console.log("The Data is Written into File : TXT !!");
    }
});

// Appending any File using ASyn. function
console.log(fs.appendFileSync("./Data/hello_1.txt", Data));


// Reading File into Sync Mode!
console.log(fs.readFileSync("./Data/hello_1.txt",'utf-8'))

// Reading File into Async Mode!
console.log(fs.readFile('./Data/hello.txt', "utf-8", (err,data)=>{
    if(err)
    {
        console.log(err);
    }else{
        console.log("Data Fetched Successfully!");
    }
}));

// Unlink - For Deletion!

console.log(fs.unlink('./Data/hello.txt', (err)=>{
    console.log(err);
}))
```

Question 10 : Global Objects

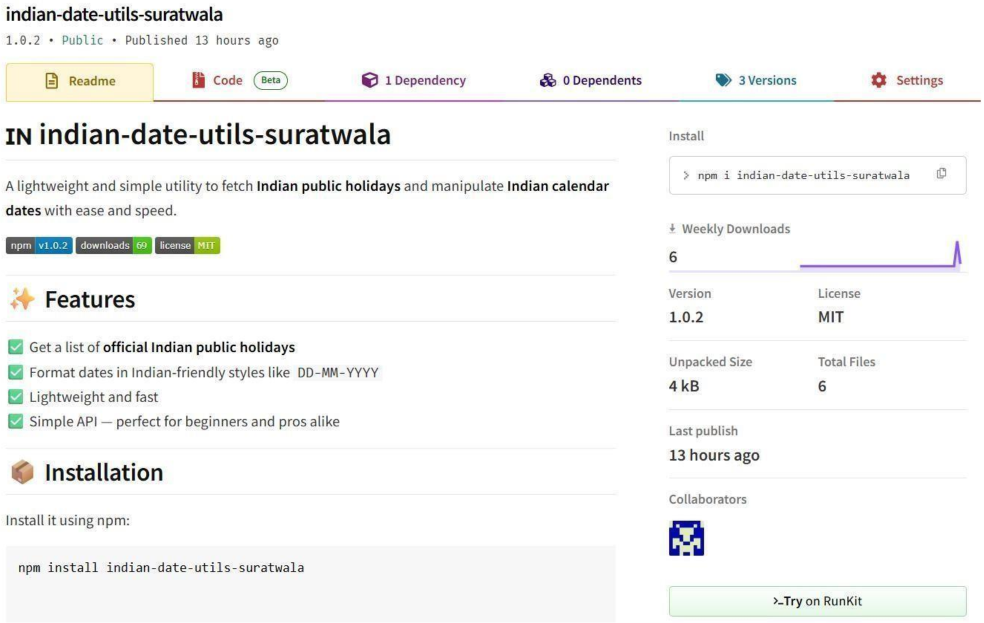
Output :



```
// __filename → current file name
console.log("Filename : " + __filename);

// __dirname → current directory
console.log("Directory Name : " + __dirname);

// Set Time Out and clear timeout

0 references
function printHello()
{
    console.log("Hello from NodeJS - a Javascript Runtime Environment!");
}

// var t = setTimeout(printHello(),5000);
// clearTimeout(t);

// Console,Process and Buffer is also a Global Object in JS!!
```

Question 11 : Publish Useful Package on npm.js

Package :



indian-date-utils-suratwala

1.0.2 • Public • Published 13 hours ago

IN indian-date-utils-suratwala

A lightweight and simple utility to fetch **Indian public holidays** and manipulate **Indian calendar dates** with ease and speed.

npm v1.0.2 | downloads 69 | license MIT

✨ Features

- ✅ Get a list of **official Indian public holidays**
- ✅ Format dates in Indian-friendly styles like `DD-MM-YYYY`
- ✅ Lightweight and fast
- ✅ Simple API — perfect for beginners and pros alike

📦 Installation

Install it using npm:

```
npm install indian-date-utils-suratwala
```

Install

```
> npm i indian-date-utils-suratwala
```

Weekly Downloads

6

Version	License
1.0.2	MIT

Unpacked Size	Total Files
4 kB	6

Last publish

13 hours ago

Collaborators

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