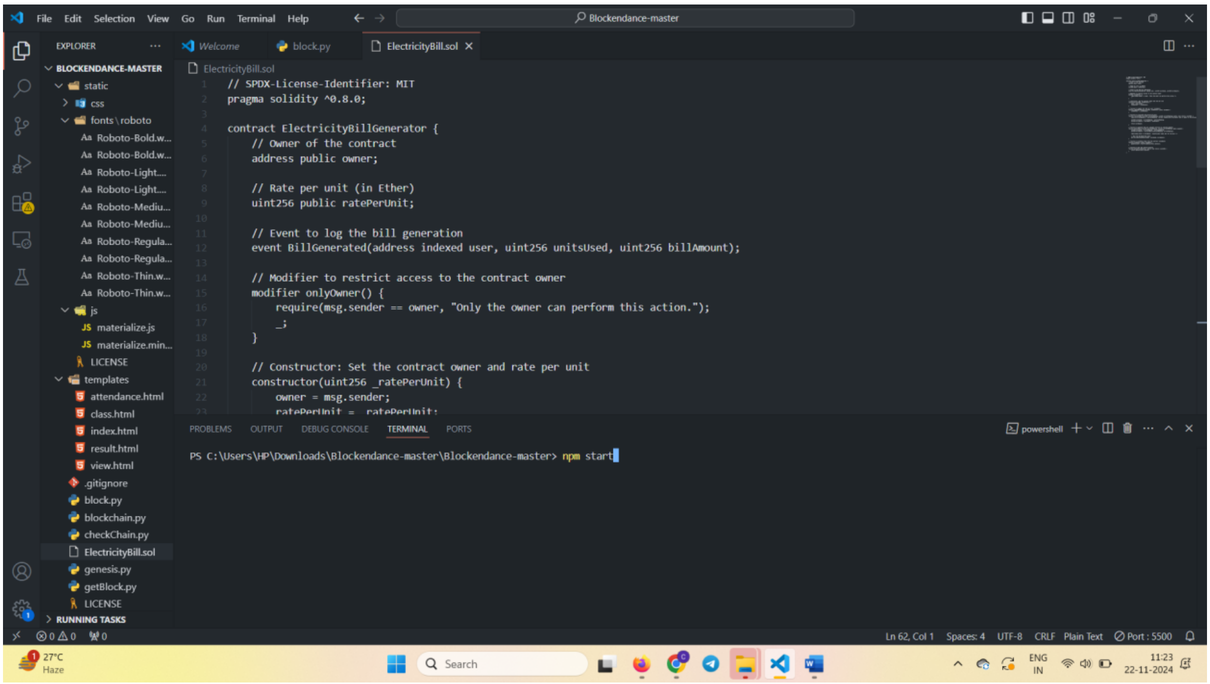
2200030023

CHERUKURI.PRASANNA LAKSHMI

CODE :



```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract ElectricityBillGenerator {
    // Owner of the contract
    address public owner;

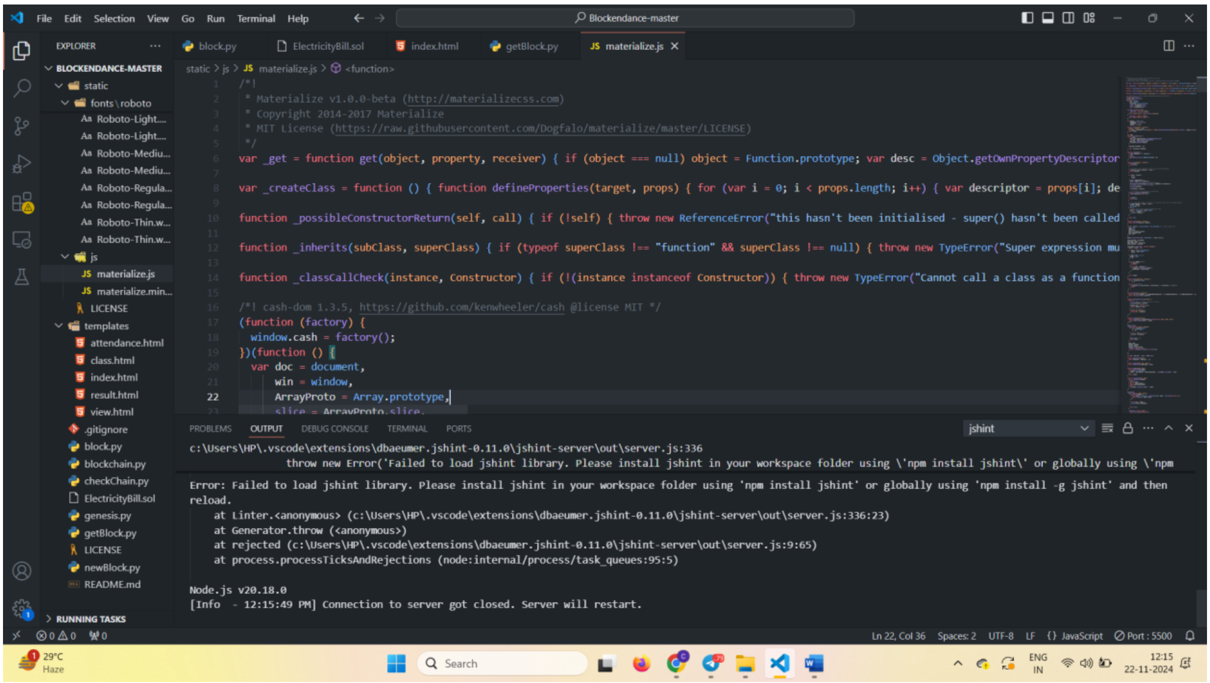
    // Rate per unit (in Ether)
    uint256 public ratePerUnit;

    // Event to log the bill generation
    event BillGenerated(address indexed user, uint256 unitsUsed, uint256 billAmount);

    // Modifier to restrict access to the contract owner
    modifier onlyOwner() {
        require(msg.sender == owner, "Only the owner can perform this action.");
        _;
    }

    // Constructor: Set the contract owner and rate per unit
    constructor(uint256 _ratePerUnit) {
        owner = msg.sender;
        ratePerUnit = _ratePerUnit;
```

```
PS C:\Users\HP\Downloads\Blockendance-master\Blockendance-master> npm start
```



```
/*!
 * Materialize v1.0.0-beta (http://materializecss.com)
 * Copyright 2014-2017 Materialize
 * MIT License (https://raw.githubusercontent.com/Dogfalo/materialize/master/LICENSE)
 */
var _get = function get(object, property, receiver) { if (object === null) object = Function.prototype; var desc = Object.getOwnPropertyDescriptor

var _createClass = function () { function defineProperties(target, props) { for (var i = 0; i < props.length; i++) { var descriptor = props[i]; de

function _possibleConstructorReturn(self, call) { if (!self) { throw new ReferenceError("this hasn't been initialised - super() hasn't been called

function _inherits(subClass, superClass) { if (typeof superClass !== "function" && superClass !== null) { throw new TypeError("Super expression mu

function _classCallCheck(instance, Constructor) { if (!(instance instanceof Constructor)) { throw new TypeError("Cannot call a class as a function

/*! cash-dom 1.3.5, https://github.com/kenwheeler/cash @license MIT */
(function (factory) {
  window.cash = factory();
})(function () {
  var doc = document,
      win = window,
      ArrayProto = Array.prototype,
      slice = ArrayProto.slice,
```

```
c:\Users\HP\.vscode\extensions\dbaeumer.jshint-0.11.0\jshint-server\out\server.js:336
                throw new Error('Failed to load jshint library. Please install jshint in your workspace folder using \'npm install jshint\' or globally using \'npm

Error: Failed to load jshint library. Please install jshint in your workspace folder using 'npm install jshint' or globally using 'npm install -g jshint' and then
reload.
    at Linter.<anonymous> (c:\Users\HP\.vscode\extensions\dbaeumer.jshint-0.11.0\jshint-server\out\server.js:336:23)
    at Generator.throw (<anonymous>)
    at rejected (c:\Users\HP\.vscode\extensions\dbaeumer.jshint-0.11.0\jshint-server\out\server.js:9:65)
    at process.processTicksAndRejections (node:internal/process/task_queues:95:5)

Node.js v20.18.0
[Info  - 12:15:49 PM] Connection to server got closed. Server will restart.
```

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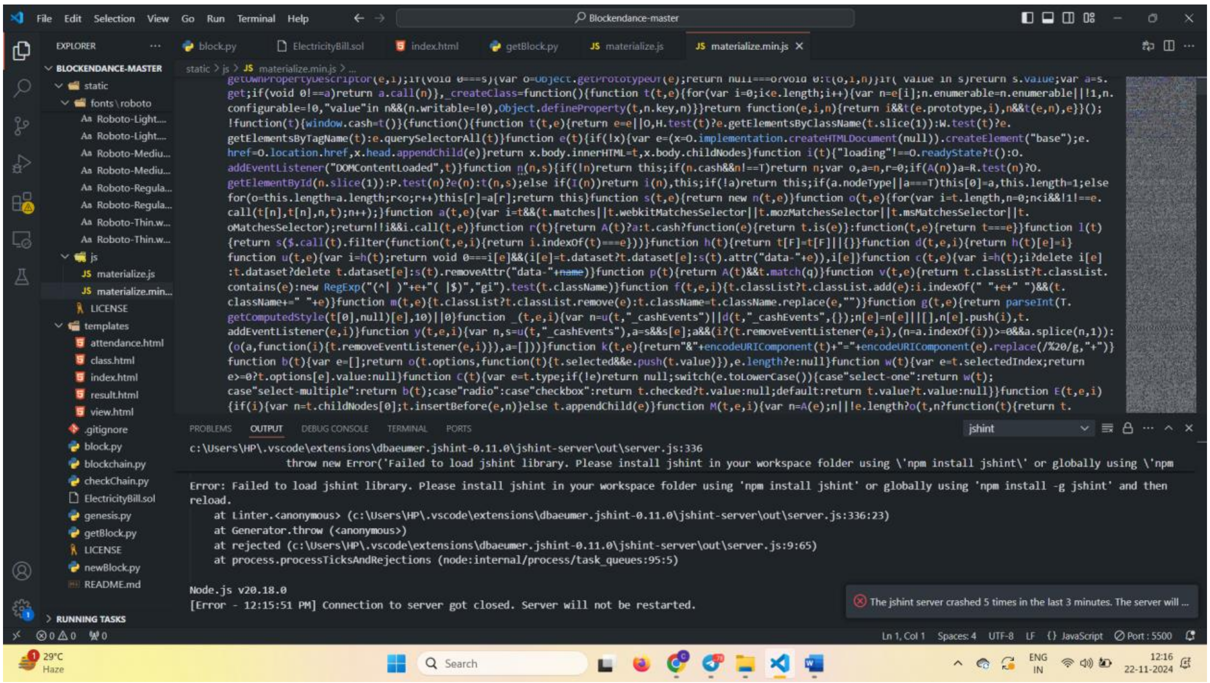

```
getOwnPropertyDescriptor(e,i);if(void 0===s){var o=Object.getPrototypeOf(e);return null===o?void 0:t(o,i,n)}if("value"in s)return s.value;var a=s.
get;if(void 0!==a)return a.call(n)},_createClass=function(){function t(t,e){for(var i=0;i<e.length;i++){var n=e[i];n.enumerable=n.enumerable||!1,n.
configurable=!0,"value"in n&&(n.writable=!0),Object.defineProperty(t,n.key,n)}}return function(e,i,n){return i&&t(e.prototype,i),n&&t(e,n),e}}();
!function(t){window.cash=t()}(function(){function t(t,e){return e=e||O,H.test(t)?e.getElementsByClassName(t.slice(1)):W.test(t)?e.
getElementsByTagName(t):e.querySelectorAll(t)}function e(t){if(!x){var e=(x=O.implementation.createHTMLDocument(null)).createElement("base");e.
href=O.location.href,x.head.appendChild(e)}return x.body.innerHTML=t,x.body.childNodes}function i(t){"loading"!==O.readyState?t():O.
addEventListener("DOMContentLoaded",t)}function n(n,s){if(!n)return this;if(n.cash&&n!==T)return n;var o,a=n,r=0;if(A(n))a=R.test(n)?O.
getElementById(n.slice(1)):P.test(n)?e(n):t(n,s);else if(I(n))return i(n),this;if(!a)return this;if(a.nodeType||a===T)this[0]=a,this.length=1;else
for(o=this.length=a.length;r<o;r++)this[r]=a[r];return this}function s(t,e){return new n(t,e)}function o(t,e){for(var i=t.length,n=0;n<i&&!1!==e.
call(t[n],t[n],n,t);n++);}function a(t,e){var i=t&&(t.matches||t.webkitMatchesSelector||t.mozMatchesSelector||t.msMatchesSelector||t.
oMatchesSelector);return!!i&&i.call(t,e)}function r(t){return A(t)?a:t.cash?function(e){return t.is(e)}:function(t,e){return t===e}}function l(t)
{return s($.call(t).filter(function(t,e,i){return i.indexOf(t)===e}))}function h(t){return t[F]=t[F]||{}}function d(t,e,i){return h(t)[e]=i}
function u(t,e){var i=h(t);return void 0===i[e]&&(i[e]=t.dataset?t.dataset[e]:s(t).attr("data-"+e)),i[e]}function c(t,e){var i=h(t);i?delete i[e]
:t.dataset?delete t.dataset[e]:s(t).removeAttr("data-"+name)}function p(t){return A(t)&&t.match(q)}function v(t,e){return t.classList?t.classList.
contains(e):new RegExp("(^| )"+e+"( |$)","gi").test(t.className)}function f(t,e,i){t.classList?t.classList.add(e):i.indexOf(" "+e+" ")&&(t.
className+=" "+e)}function m(t,e){t.classList?t.classList.remove(e):t.className=t.className.replace(e,"")}function g(t,e){return parseInt(T.
getComputedStyle(t[0],null)[e],10)||0}function _(t,e,i){var n=u(t,"_cashEvents")||d(t,"_cashEvents",{});n[e]=n[e]||[],n[e].push(i),t.
addEventListener(e,i)}function y(t,e,i){var n,s=u(t,"_cashEvents"),a=s&&s[e];a&&(i?(t.removeEventListener(e,i),(n=a.indexOf(i))>=0&&a.splice(n,1)):
(o(a,function(i){t.removeEventListener(e,i)}),a=[]))}function k(t,e){return"&"+encodeURIComponent(t)+"="+encodeURIComponent(e).replace(/%20/g,"+")}
function b(t){var e=[];return o(t.options,function(t){t.selected&&e.push(t.value)}),e.length?e:null}function w(t){var e=t.selectedIndex;return
e>=0?t.options[e].value:null}function C(t){var e=t.type;if(!e)return null;switch(e.toLowerCase()){case"select-one":return w(t);
case"select-multiple":return b(t);case"radio":case"checkbox":return t.checked?t.value:null;default:return t.value?t.value:null}}function E(t,e,i)
{if(i){var n=t.childNodes[0];t.insertBefore(e,n)}else t.appendChild(e)}function M(t,e,i){var n=A(e);n||!e.length?o(t,n?function(t){return t.
```

```
c:\Users\HP\.vscode\extensions\dbaeumer.jshint-0.11.0\jshint-server\out\server.js:336
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Node.js v20.18.0
[Error - 12:15:51 PM] Connection to server got closed. Server will not be restarted.
```

The jshint server crashed 5 times in the last 3 minutes. The server will ...

1. Install MetaMask

Steps:

Open your web browser (preferably Chrome or Firefox).

Go to the MetaMask website.

Click on "Download."

Select your browser's extension store (Chrome Web Store for Chrome or Add-ons for Firefox).

Install the MetaMask extension.

Open the MetaMask extension and set up your wallet:

Create a new wallet or import an existing one.

Securely save your seed phrase.

2. Install Ganache

Steps:

Visit the Ganache website.

Download the appropriate version for your operating system (Windows, macOS, or Linux).

Run the installer and follow the instructions.

Open Ganache and select the desired workspace:

Quickstart Ethereum for a private blockchain.

Create a new workspace for advanced configuration.

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3. Transfer Ether Between Ganache Accounts Using MetaMask

Steps:

Open Ganache and copy the private key of an account.

Open MetaMask and add a new account using the private key.

Use another Ganache account as the recipient by copying its address.

In MetaMask:

Go to the "Send" section.

Paste the recipient's address.

Enter the amount of Ether to send.

Confirm the transaction.

4. Transfer Ether on Sepolia Test Network

Steps:

Open MetaMask and switch to the Sepolia test network.

Use a Sepolia faucet to get test Ether. Search "Sepolia Faucet" and follow the instructions to receive test Ether in your account.

Transfer Ether:

Go to "Send" in MetaMask.

Paste the recipient's Sepolia address.

Enter the amount to send.

Confirm the transaction.

5. Execute a Local Smart Contract Using Ganache

Steps:

Deploy a smart contract:

Write a Solidity contract and compile it in Remix or a development framework like Truffle.

Connect Remix to Ganache by adding a custom RPC network in MetaMask with Ganache's details.

Deploy the contract using one of the Ganache accounts.

Interact with the contract:

Use the deployed contract's functions in Remix.

Sign transactions with MetaMask to execute the functions.

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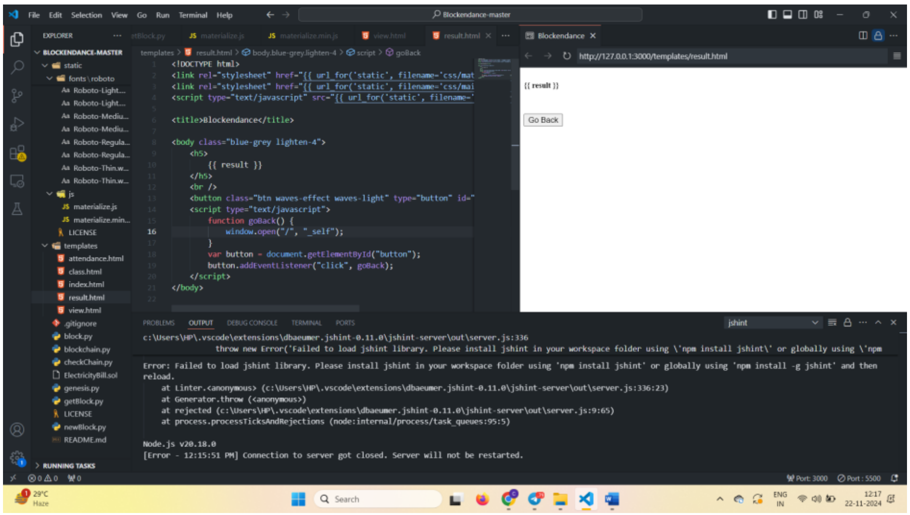
Check the updated state on the Ganache GUI.


File Edit Selection View Go Run Terminal Help
Blockendance-master
EXPLORER
BLOCKENDANCE-MASTER
templates > result.html > body.blue-grey.lighten-4 > script > goBack
Blockendance
http://127.0.0.1:3000/templates/result.html
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
jshint
Port: 3000 Port : 5500
Search
12:17
22-11-2024

```
<!DOCTYPE html>
<link rel="stylesheet" href="{{ url_for('static', filename='css/mat
<link rel="stylesheet" href="{{ url_for('static', filename='css/mai
<script type="text/javascript" src="{{ url_for('static', filename='

<title>Blockendance</title>

<body class="blue-grey lighten-4">
    <h5>
        {{ result }}
    </h5>
    <br />
    <button class="btn waves-effect waves-light" type="button" id="
    <script type="text/javascript">
        function goBack() {
            window.open("/", "_self");
        }
        var button = document.getElementById("button");
        button.addEventListener("click", goBack);
    </script>
</body>
```

{{ result }}

Go Back

```
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reload.
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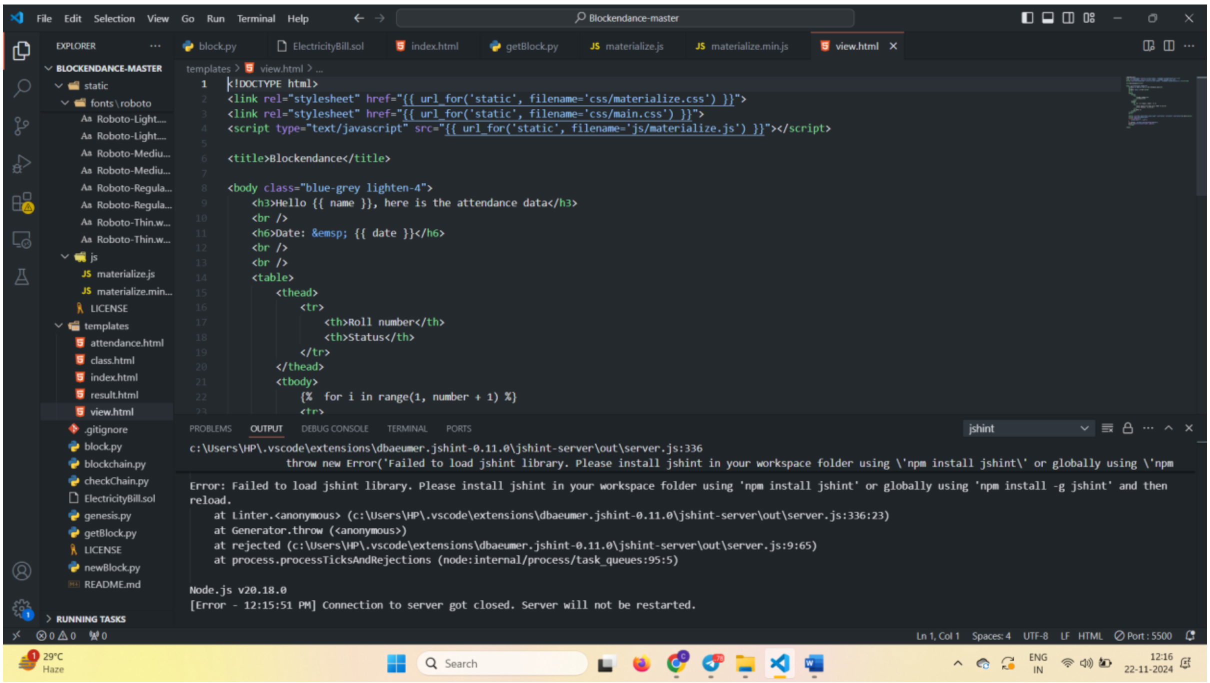
File Edit Selection View Go Run Terminal Help
Blockendance-master
EXPLORER
BLOCKENDANCE-MASTER
block.py
ElectricityBill.sol
index.html
getBlock.py
materialize.js
materialize.min.js
view.html
templates > view.html > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
jshint
Ln 1, Col 1 Spaces: 4 UTF-8 LF HTML Port : 5500
Search
12:16
22-11-2024

```
<!DOCTYPE html>
<link rel="stylesheet" href="{{ url_for('static', filename='css/materialize.css') }}">
<link rel="stylesheet" href="{{ url_for('static', filename='css/main.css') }}">
<script type="text/javascript" src="{{ url_for('static', filename='js/materialize.js') }}"></script>

<title>Blockendance</title>

<body class="blue-grey lighten-4">
    <h3>Hello {{ name }}, here is the attendance data</h3>
    <br />
    <h6>Date: &emsp; {{ date }}</h6>
    <br />
    <br />
    <table>
        <thead>
            <tr>
                <th>Roll number</th>
                <th>Status</th>
            </tr>
        </thead>
        <tbody>
            {% for i in range(1, number + 1) %}
            <tr>
```

```
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```

CHECK MY PROJECT OUTPUTS UPLOADED BELOW

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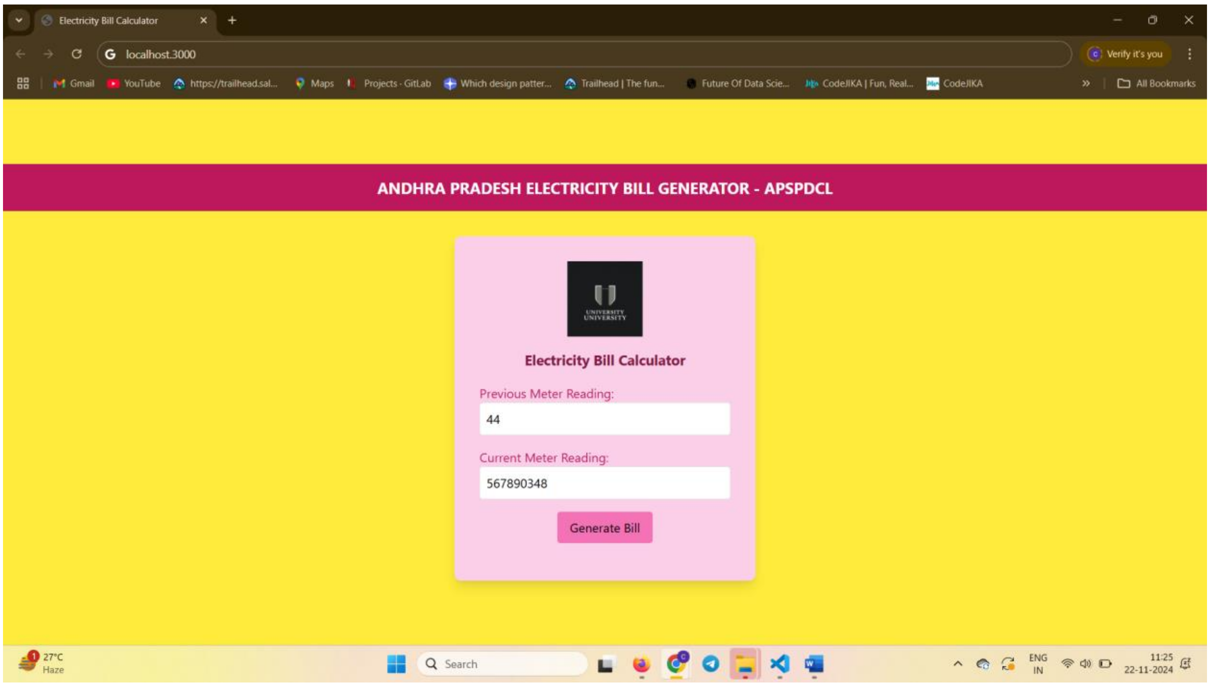


ANDHRA PRADESH ELECTRICITY BILL GENERATOR - APSPDCL

Electricity Bill Calculator

Previous Meter Reading:

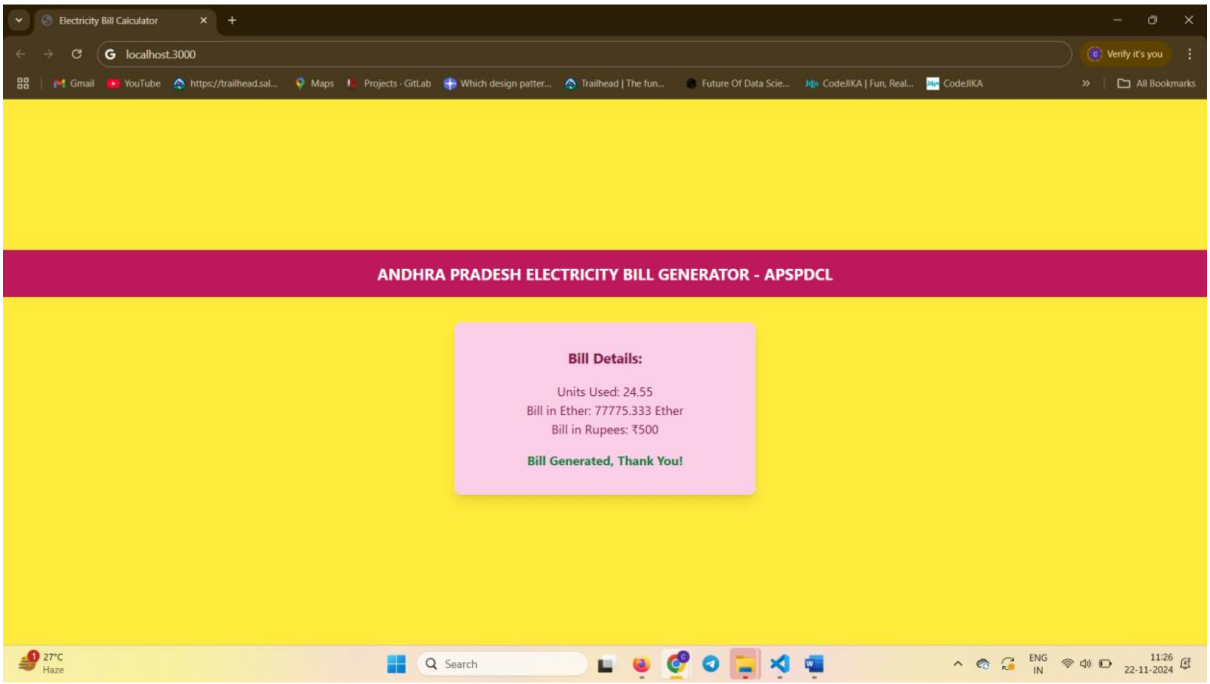
44

Current Meter Reading:

567890348

Generate Bill

OUTPUT-3



ANDHRA PRADESH ELECTRICITY BILL GENERATOR - APSPDCL

Bill Details:

Units Used: 24.55
Bill in Ether: 77775.333 Ether
Bill in Rupees: ₹500

Bill Generated, Thank You!