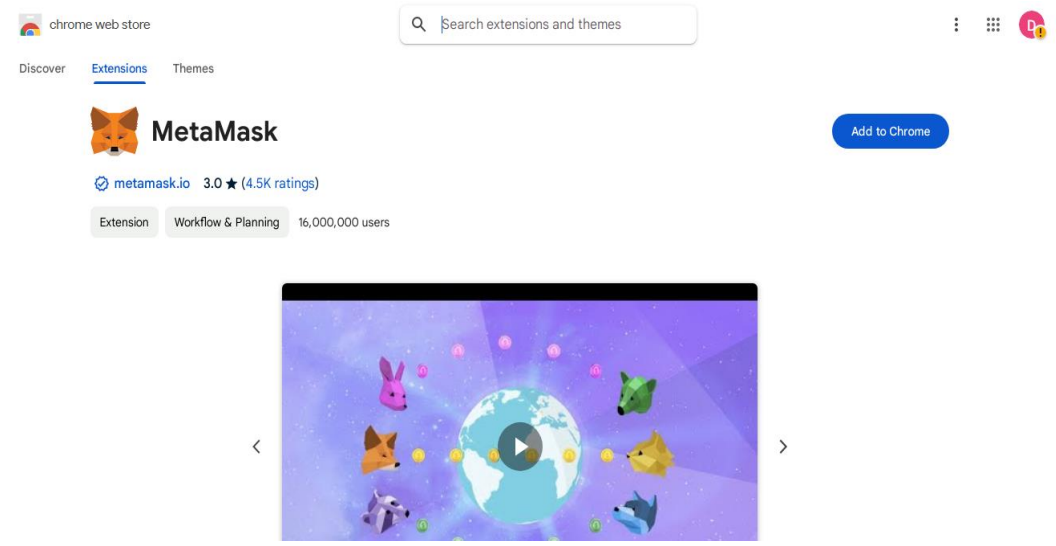
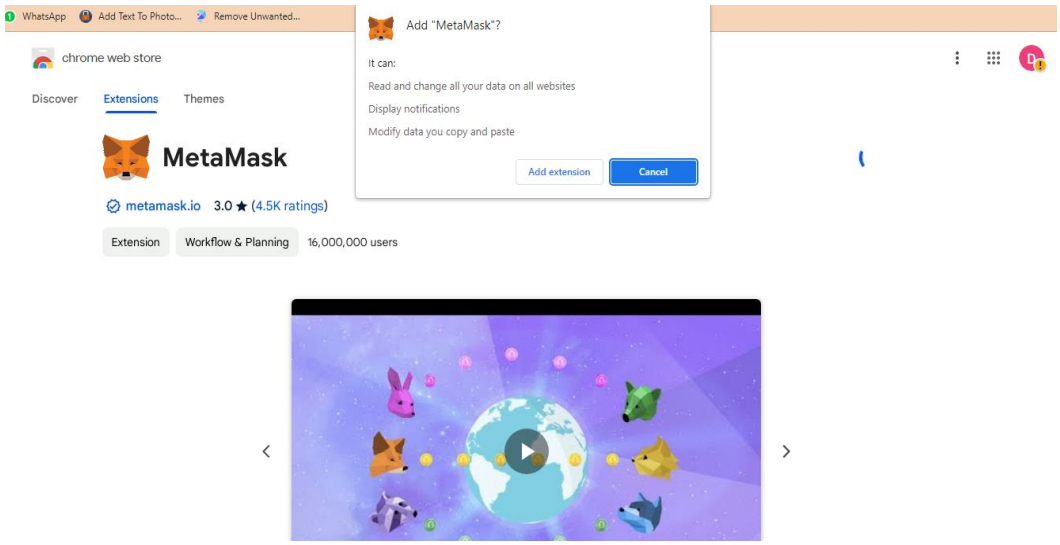

chrome web store
Search extensions and themes
Discover
Extensions
Themes
MetaMask
Add to Chrome
metamask.io 3.0 ★ (4.5K ratings)
Extension
Workflow & Planning
16,000,000 users


WhatsApp
Add Text To Photo...
Remove Unwanted...
Add "MetaMask"?
It can:
Read and change all your data on all websites
Display notifications
Modify data you copy and paste
Add extension
Cancel
chrome web store
Discover
Extensions
Themes
MetaMask
metamask.io 3.0 ★ (4.5K ratings)
Extension
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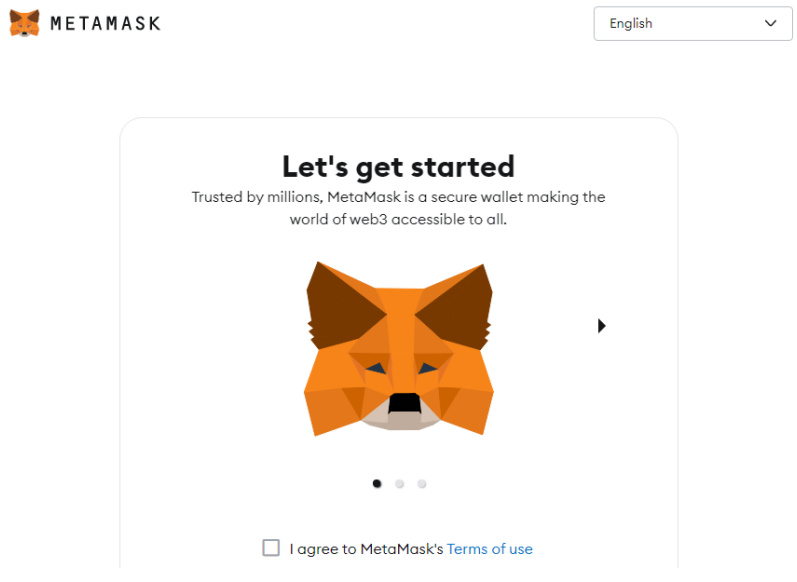
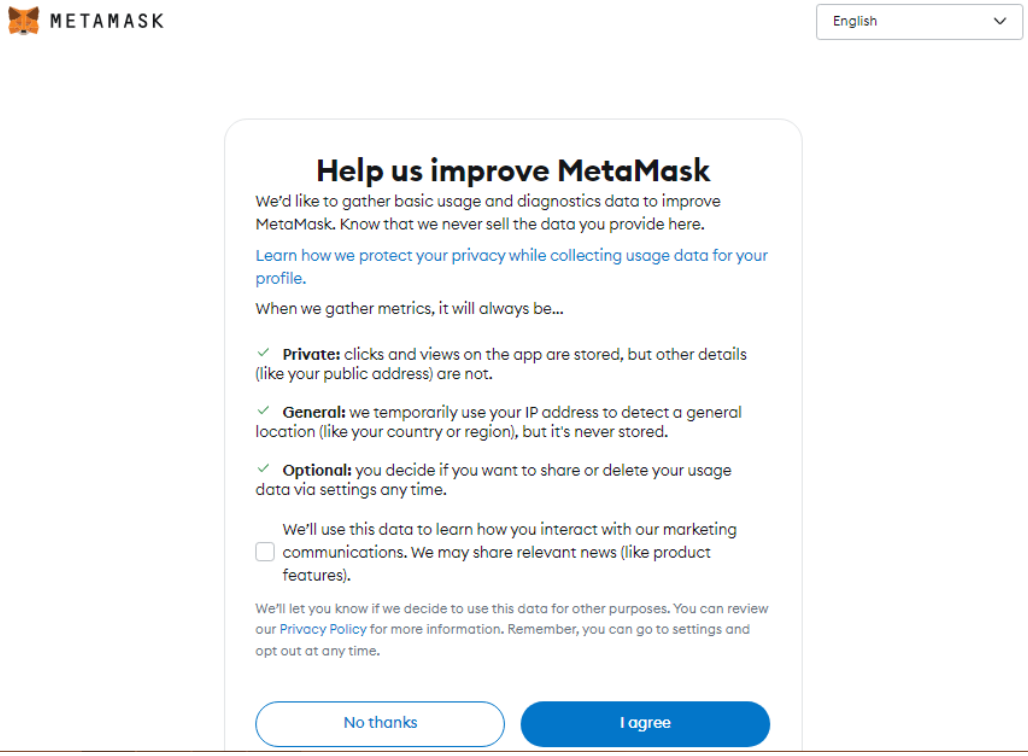
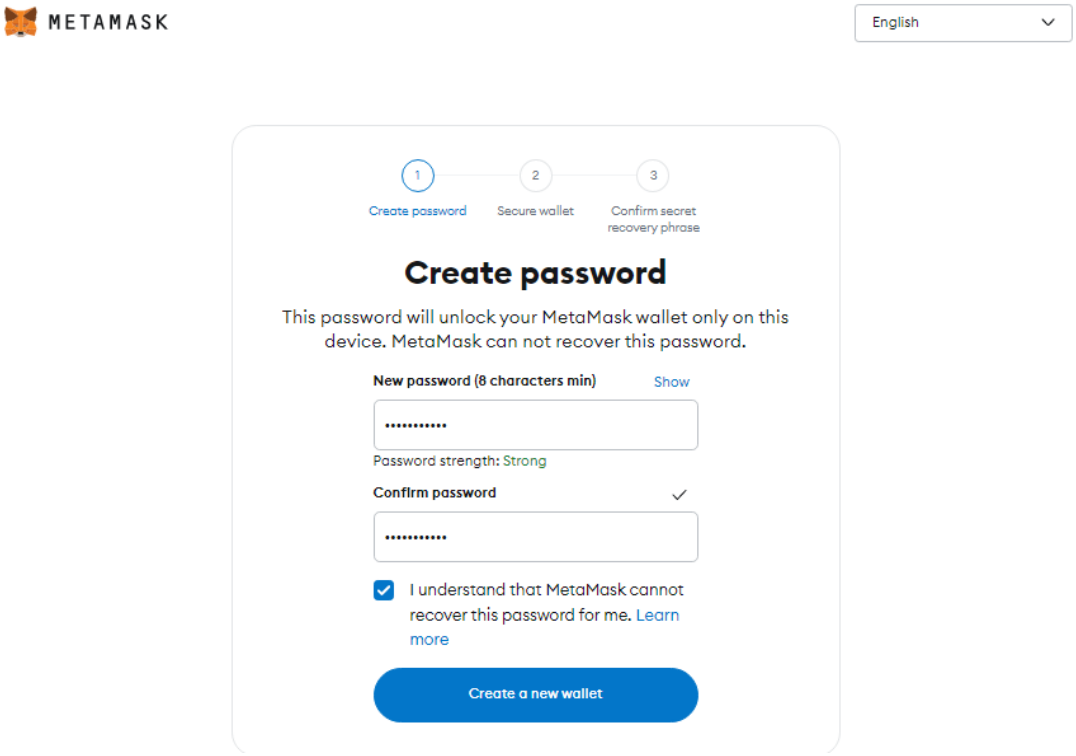
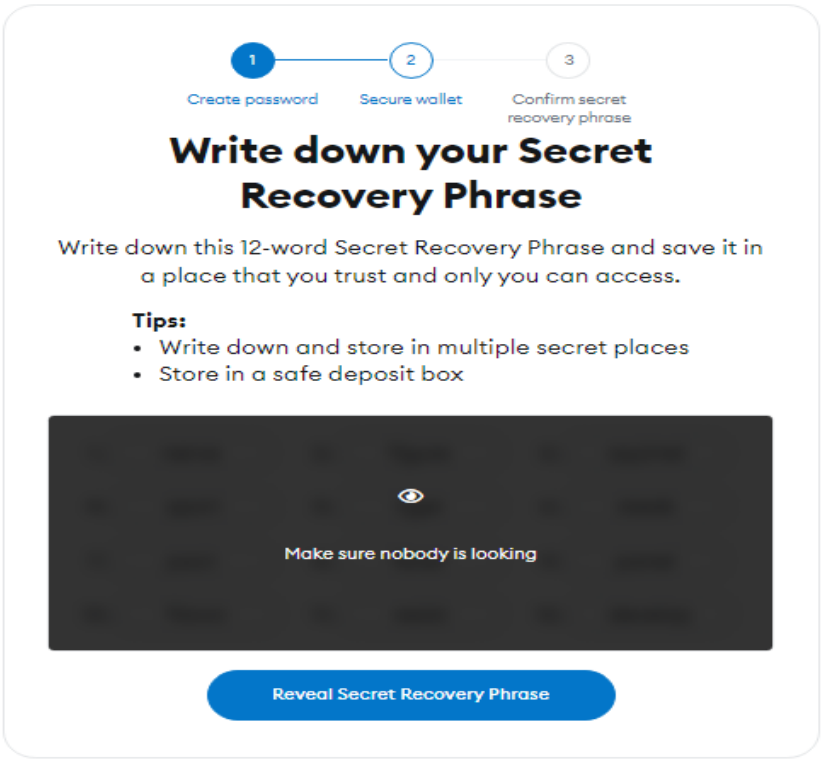
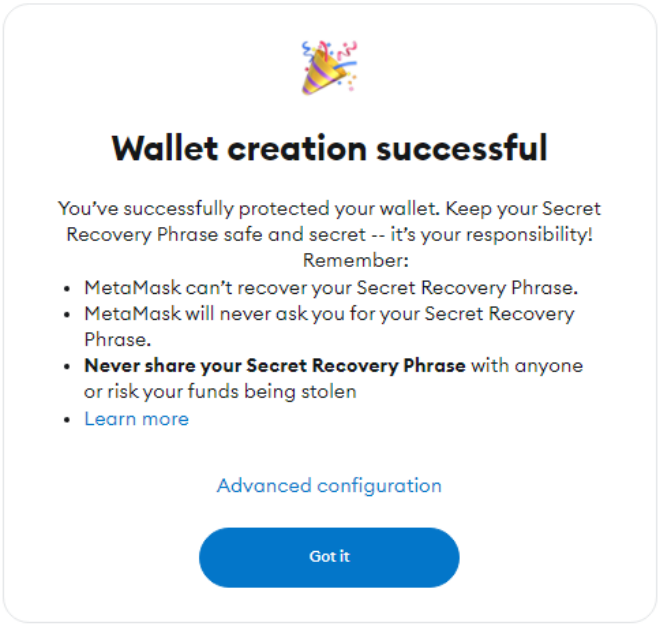

METAMASK
English
Let's get started
Trusted by millions, MetaMask is a secure wallet making the world of web3 accessible to all.
I agree to MetaMask's Terms of use


METAMASK
English
Help us improve MetaMask
We'd like to gather basic usage and diagnostics data to improve MetaMask. Know that we never sell the data you provide here.
Learn how we protect your privacy while collecting usage data for your profile.
When we gather metrics, it will always be...
Private: clicks and views on the app are stored, but other details (like your public address) are not.
General: we temporarily use your IP address to detect a general location (like your country or region), but it's never stored.
Optional: you decide if you want to share or delete your usage data via settings any time.
We'll use this data to learn how you interact with our marketing communications. We may share relevant news (like product features).
We'll let you know if we decide to use this data for other purposes. You can review our Privacy Policy for more information. Remember, you can go to settings and opt out at any time.
No thanks
I agree


METAMASK
English
1
2
3
Create password
Secure wallet
Confirm secret recovery phrase
Create password
This password will unlock your MetaMask wallet only on this device. MetaMask can not recover this password.
New password (8 characters min)
Show
Password strength: Strong
Confirm password
I understand that MetaMask cannot recover this password for me. Learn more
Create a new wallet


1
2
3
Create password
Secure wallet
Confirm secret recovery phrase
Write down your Secret Recovery Phrase
Write down this 12-word Secret Recovery Phrase and save it in a place that you trust and only you can access.
Tips:
• Write down and store in multiple secret places
• Store in a safe deposit box
Make sure nobody is looking
Reveal Secret Recovery Phrase

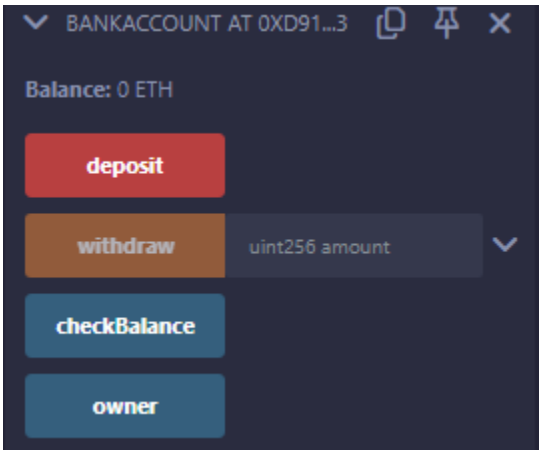

METAMASK
English

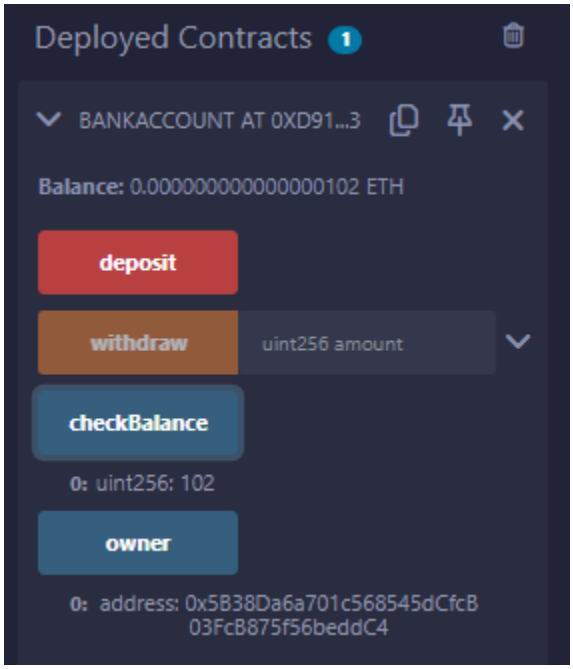

Wallet creation successful
You've successfully protected your wallet. Keep your Secret Recovery Phrase safe and secret -- it's your responsibility!
Remember:
• MetaMask can't recover your Secret Recovery Phrase.
• MetaMask will never ask you for your Secret Recovery Phrase.
• Never share your Secret Recovery Phrase with anyone or risk your funds being stolen
• Learn more
Advanced configuration
Got it

Practical 3 Code

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

contract BankAccount {
    address public owner;
    uint256 private balance;

    constructor() {
        owner = msg.sender;
        balance = 0;
    }

    // Function to deposit money
    function deposit() public payable {
        require(msg.value > 0, "Deposit amount must be greater than zero");
        balance += msg.value;
    }

    // Function to withdraw money
    function withdraw(uint256 amount) public {
        require(msg.sender == owner, "Only the owner can withdraw");
        require(amount <= balance, "Insufficient balance");
        balance -= amount;
        payable(owner).transfer(amount);
    }

    // Function to check balance
    function checkBalance() public view returns (uint256) {
        return balance;
    }
}
```

Output


BANKACCOUNT AT 0XD91...3
Balance: 0 ETH
deposit
withdraw
uint256 amount
checkBalance
owner

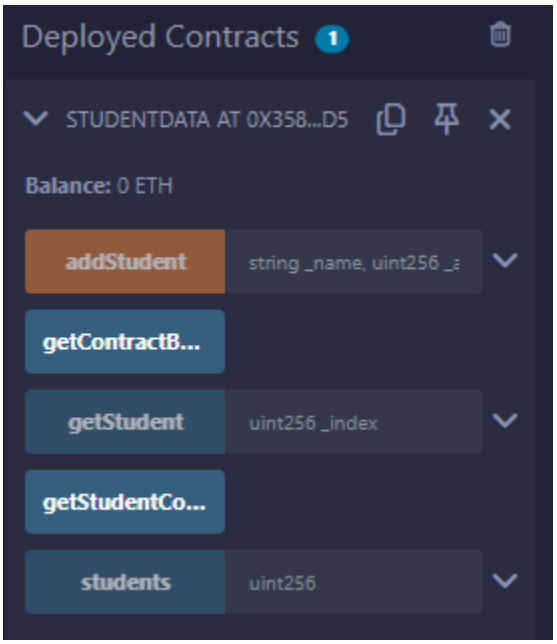

Deployed Contracts 1
BANKACCOUNT AT 0XD91...3
Balance: 0.000000000000000102 ETH
deposit
withdraw
uint256 amount
checkBalance
0: uint256: 102
owner
0: address: 0x5B38Da6a701c568545dCfcB
03FcB875f56beddC4

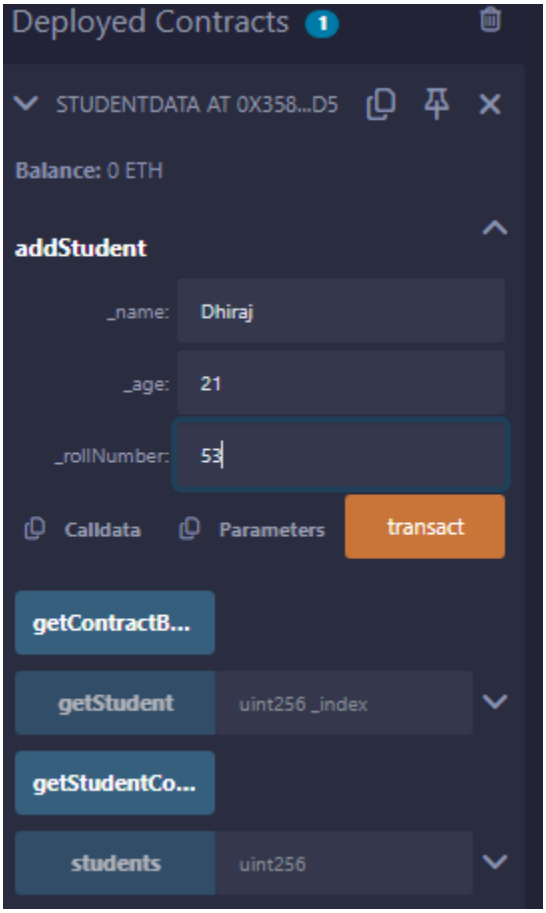
Practical 4

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

contract StudentData {

    // Define a structure for Student
    struct Student {
        string name;
        uint age;
        uint rollNumber;
    }

    // Array to store students
    Student[] public students;

    // Event to log student addition
    event StudentAdded(string name, uint age, uint rollNumber);

    // Function to add a new student
    function addStudent(string memory _name, uint _age, uint _rollNumber) public
{
        Student memory newStudent = Student({
            name: _name,
            age: _age,
            rollNumber: _rollNumber
        });
        students.push(newStudent);
        emit StudentAdded(_name, _age, _rollNumber); // Emit event
    }

    // Function to get the total number of students
    function getStudentCount() public view returns (uint) {
        return students.length;
    }

    // Function to retrieve student by index
    function getStudent(uint _index) public view returns (string memory, uint,
uint) {
        require(_index < students.length, "Invalid index");
        Student storage student = students[_index];
        return (student.name, student.age, student.rollNumber);
    }
```

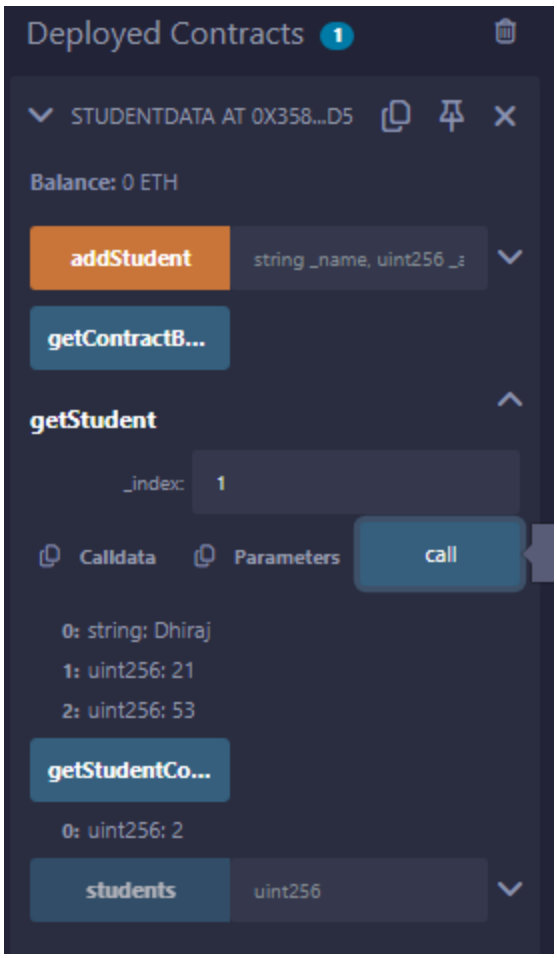
```
    // Fallback function to handle unknown calls
    fallback() external payable {
        // Fallback logic, but for now, it will just accept Ether
    }

    // Receive function to handle direct Ether transfers
    receive() external payable {
        // This function will be triggered when Ether is sent to the contract
    }

    // Function to check the balance of the contract (if fallback received any
ether)
    function getContractBalance() public view returns (uint) {
        return address(this).balance;
    }
}
```

Output





addStuent() function



getStudent Display the Student Data