

**Title:** Write a smart contract on a test network,  
for Bank account of a customer for following  
operations: **Deposit money Withdraw Money**  
**Show balance.**

---

---

# Download and Install Remix IDE

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google.com/search?q=remix+ide+download&rlz=1C1CHBF\_enIN1123IN1123&oq=Remix+IDE+&gs\_lcrp=EgZjaHJvbWUqCQgCEAAYExiABDIGC...

Google

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remix-project.org  
<https://remix-project.org> · যা পানাচে ভাষাংতর করা :

[Remix - Ethereum IDE & community](#)

Remix Online IDE is a powerful toolset for developing, deploying, debugging, and testing Ethereum and EVM-compatible smart contracts.

GitHub  
<https://github.com> · যা পানাচে ভাষাংতর করা :

[Releases · ethereum/remix-desktop](#)

২৩ মে, ২০২৪ — Remix-IDE-1.3.6-mac.zip. 94.8 MB Nov 25, 2022. Remix-IDE-1.3.6-universal.dmg. 162 MB Nov 25, 2022. Remix-IDE-1.3.6-win.zip. 102 MB Nov 25, 2022.

SourceForge  
<https://sourceforge.net> · যা পানাচে ভাষাংতর করা :

[Remix IDE download](#)

১৪ মার্চ, ২০২৩ — Download Remix IDE for free. Browser-based compiler and IDE. Remix IDE is an open source web and desktop application.

<https://remix-project.org>

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[About](#)[Documentation](#)[IDE](#)[Learn](#)[EN](#)[Start](#)[Plugins](#)[Libraries](#)[Events](#)[Rewards](#)[Team](#)

# Scroll Down

# REMIX PROJECT

## JUMP INTO WEB3

The Remix Project is a rich toolset that can be used for the entire journey of contract development by users of any knowledge level, and as a learning lab for teaching and experimenting with Ethereum.



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09-10-2024

Remix - Ethereum IDE & comm x +

remix-project.org/?lang=en

REMX

About Documentation IDE Learn EN ☰

Remix IDE is a no-setup tool with a GUI for developing smart contracts. Used by experts and beginners alike, Remix will get you up and running quickly. It plays well with other tools, and allows for a simple deployment process to the chain of your choice. Remix is famous for its visual debugger. Remix is the place everyone comes to learn Ethereum.

Start Plugins Libraries Events Rewards Team

Remix Online IDE Web-based DevEnvironment

Remix Online IDE is a powerful toolset for developing, deploying, debugging, and testing Ethereum and EVM-compatible smart contracts. It requires no setup and has a flexible, intuitive user interface.

Start coding online

Remix Desktop IDE Electron App

For users who prefer the performance or security of their own hard drive, Remix has a desktop app. Your files are saved directly to your computer's filesystem.

Get our Desktop App >

Remixd Our CLI Tool

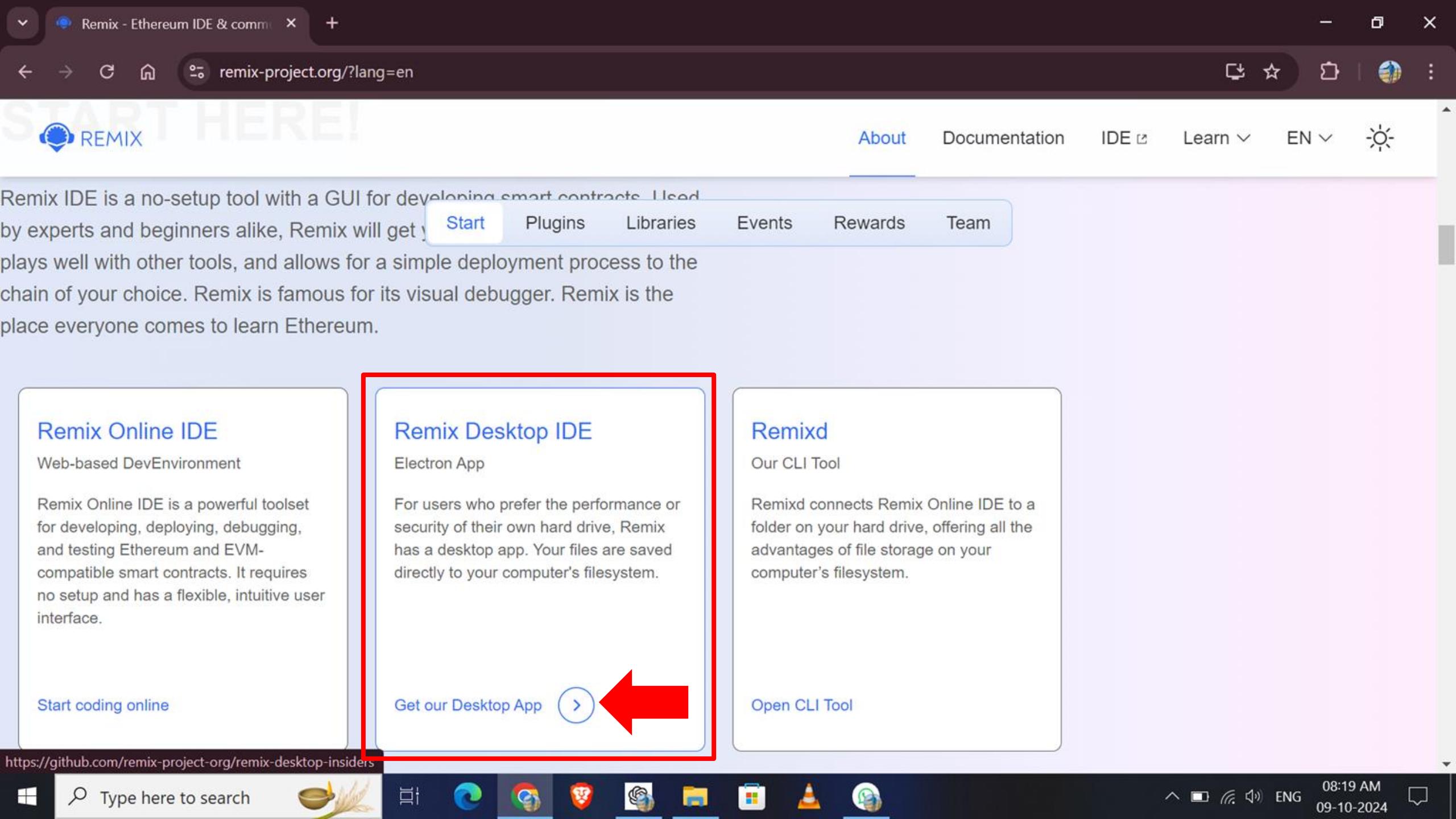
Remixd connects Remix Online IDE to a folder on your hard drive, offering all the advantages of file storage on your computer's filesystem.

Open CLI Tool

https://github.com/remix-project-org/remix-desktop-insiders

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Remix - Ethereum IDE & comm X GitHub - remix-project-org/rem... +

github.com/remix-project-org/remix-desktop-insiders

README

Remix Desktop is an Electron version of Remix IDE. It works on Linux, Windows, & Macs.

Like the name says, it is a desktop app - so you can seamlessly access files on your computer's filesystem.

This insiders version of Remix Desktop is designed to bring you the latest features and innovations before they hit the mainstream. As an Insider, you get exclusive access to experimental updates.

As this is an experimental release, be careful and always back up your files.

The app will automatically update itself when there is a new release.

Download the appropriate release for your OS: <https://github.com/remix-project-org/remix-desktop-insiders/releases>

To find out more about Remix IDE - please go to [ethereum/remix-project](#) - or to see it in action, go to [remix.ethereum.org](#).

## About Remix Desktop

### Differences between Remix Desktop & Remix IDE - the web app

- You always use the local file system, no need to upload files. Just use your regular local workflow.
- You can use native terminals ( bash, sh, zsh, powershell, cmd.exe ) and use for example git there like you

<https://github.com/remix-project-org/remix-desktop-insiders/releases>

Releases 6

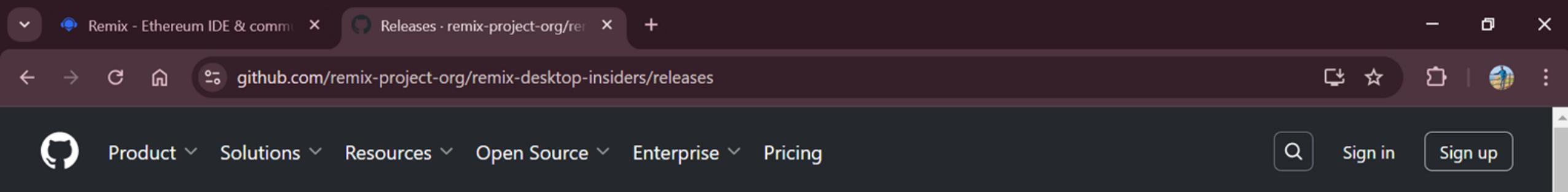
1.0.8-insiders Latest 2 weeks ago

+ 5 releases

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No packages published

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remix-project-org / remix-desktop-insiders Public

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0171bb5 ✓

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v1.0.8-insiders

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Remix - Ethereum IDE & comm X Releases · remix-project-org/re... +

github.com/remix-project-org/remix-desktop-insiders/releases

latest-linux.yml	580 Bytes	2 weeks ago
latest-mac.yml	942 Bytes	2 weeks ago
latest.yml	396 Bytes	2 weeks ago
Remix-Desktop-Insiders-1.0.8-insiders-arm64-mac.zip	164 MB	2 weeks ago
Remix-Desktop-Insiders-1.0.8-insiders-arm64.dmg	171 MB	2 weeks ago
Remix-Desktop-Insiders-1.0.8-insiders-mac.zip	169 MB	2 weeks ago
Remix-Desktop-Insiders-1.0.8-insiders.ApplImage	182 MB	2 weeks ago
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Remix-Desktop-Setup-1.0.8-insiders.exe	107 MB	2 weeks ago
remixdesktop_1.0.8-insiders_amd64.deb	110 MB	2 weeks ago
Source code (zip)		May 23
Source code (tar.gz)		May 23

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github.com/remix-project-org/remix-desktop-insiders/releases

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- Remix-Desktop-Setup-1.0.8-insiders.exe  
↓ 6.5/107 MB • 2 minutes left
- logo-white.png  
30.8 KB • 19 hours ago
- VC\_redist.x64.exe  
24.2 MB • 20 hours ago
- vcredist\_x64 (1).exe  
6.9 MB • 20 hours ago
- vcredist\_x64.exe  
5.0 MB • 20 hours ago
- FDx SDK Pro for Windows v4.21\_J1.12.zip  
8.3 MB • 21 hours ago
- MantraRDSERVICE\_1.0.8.exe  
6.4 MB • 22 hours ago
- driveridentifier\_setup.exe  
5.4 MB • 22 hours ago
- MFS100Driver\_9.2.0.0.exe

Full download history

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latest-mac.yml  
latest.yml  
Remix-Desktop-Insiders-1.0.8-insiders-arm64-mac.zip  
Remix-Desktop-Insiders-1.0.8-insiders-arm64.dmg  
Remix-Desktop-Insiders-1.0.8-insiders-mac.zip  
Remix-Desktop-Insiders-1.0.8-insiders.ApplImage  
Remix-Desktop-Insiders-1.0.8-insiders.dmg  
Remix-Desktop-Setup-1.0.8-insiders.exe  
remixdesktop\_1.0.8-insiders\_amd64.deb  
remixdesktop\_1.0.8-insiders\_amd64.snap  
Source code (zip)  
Source code (tar.gz)

3 people reacted

4 people reacted

Jul 7

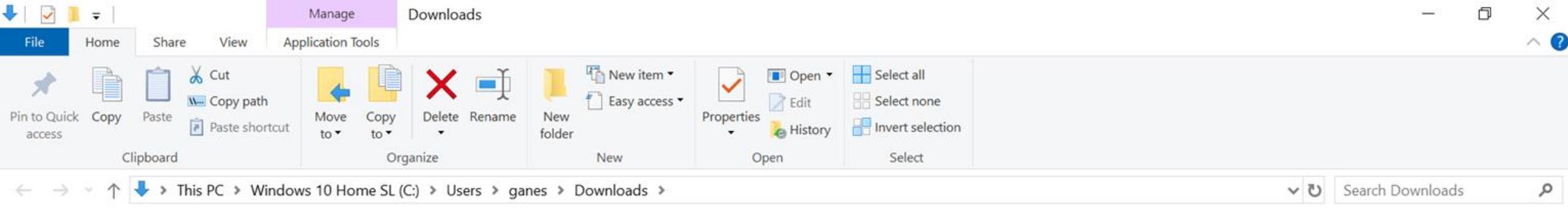
1.0.7\_insiders

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# Installation Of Remix



A red arrow points to the file "Remix-Desktop-S etup-1.0.8-inside rs" in the "Today (1)" section of the Downloads folder.

Category	File Name	Description	Date	Count	
Downloads	WhatsApp Image	Image	2024-10-08 at 12.59.27 PM	(2)	
	WhatsApp Image	Image	2024-10-08 at 12.59.27 PM	(1)	
	WhatsApp Image	Image	2024-10-08 at 12.59.27 PM	(1)	
	logo-white	Image			
	VC_redist.x64	File			
	vcredist_x64 (1)	File			
	vcredist_x64	File			
	MantraRDServi ce_1.0.8	File			
MFS100Driver_9.2.0.0	File				
New folder (3)	Folder				
Earlier this week	Windows 10 Home	File			
	System Reserved	File			
	Ganesh Ugale (E:)	File			
	Windows 11 HSI	File			
	Collage Files (G:)	File			
	Crack Programs	File			
	Networks	File			
	196 items	1 item selected	107 MB		
	Type here to search	Search bar placeholder			
	Windows Start button	Start button			
Icons for various applications (Calculator, File Explorer, Google Chrome, Microsoft Edge, File Manager, VLC Media Player, Task View, System Tray)	Application icons				
08:23 AM	Current time				
09-10-2024	Current date				
ENG	Language setting				

File Home Share View Application Tools Manage Downloads

Pin to Quick access Copy Paste Cut Copy path Move to Copy to Delete Rename New item Open New folder New Open Properties Select all Select none Invert selection

Clipboard Organize New Open Select

This PC > Windows 10 Home SL (C) > Users > Remix-Desktop-Insiders Setup

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Choose Installation Options  
Who should this application be installed for?  
Please select whether you wish to make this software available to all users or just yourself

Anyone who uses this computer (all users)  
 Only for me (ganes)

Fresh install for all users. (will prompt for admin credentials)

Remix-Desktop-Insiders 1.0.8-insiders

Next > Cancel

Large red arrow pointing down to the Next > button.

Icons visible in the background include: WhatsApp Image, WhatsApp Image, MantraRDSERVICE\_1.0.8, MFS100Driver\_9.2.0, New folder (3), PDF files, and logos for Pravara Rural Education Society.

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Pin to Quick access Copy Paste Cut Copy path Move to Copy to Delete Rename New item Open New folder New Open Properties Select all Select none Invert selection

Clipboard Organize New Open Select

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Choose Install Location

Choose the folder in which to install Remix-Desktop-Insiders.

Setup will install Remix-Desktop-Insiders in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.

Destination Folder: C:\Program Files\Remix-Desktop-Insiders

Space required: 567.5 MB  
Space available: 107.0 GB

Remix-Desktop-Insiders 1.0.8-insiders

< Back Install Cancel

12.59.27 PM

WhatsApp Image 2024-10-08 at 12.59.27 PM (2)

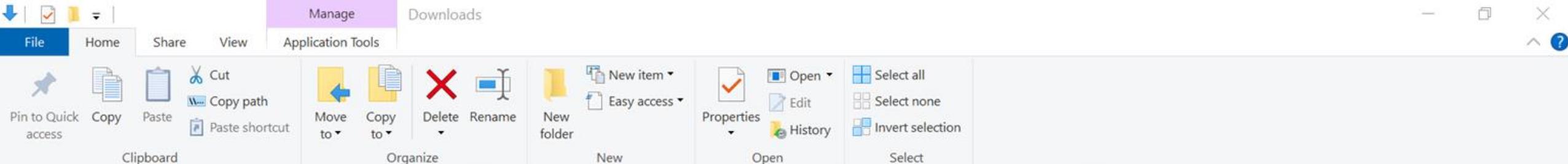
WhatsApp Image 2024-10-08 at 12.59.27 PM (1)

x64 MantraRDServi... 1.0.8 MFS100Driver\_9.2.0 New folder (3)

PDF PDF W

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This PC > Windows 10 Home SL (C) > Users > Remix-Desktop-Insiders Setup

**Installing**  
Please wait while Remix-Desktop-Insiders is being installed.

Remix-Desktop-S etup-1.0.8-inside rs

Yesterday (10)

- WhatsApp Image 2024-10-08 at 12.59.27 PM (2)
- WhatsApp Image 2024-10-08 at 12.59.27 PM (1)

Earlier this week (10)

- Windows 10 Home
- System Reserved
- Ganesh Ugale (E:)
- Windows 11 HSI
- Collage Files (G:)
- Crack Programs
- Networks

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Remix-Desktop-Insiders 1.0.8-insiders x64

MantraRDSERVICE \_1.0.8

MFS100Driver\_9. 2.0.0

New folder (3)

PDF

PRAVARA

PRAVARA

PDF

W

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The main content area displays a progress bar indicating the installation of 'Remix-Desktop-Insiders 1.0.8-insiders'. Below the progress bar, there are four icons representing different files or applications: 'MantraRDSERVICE \_1.0.8', 'MFS100Driver\_9. 2.0.0', 'New folder (3)', and 'Remix-Desktop-Insiders 1.0.8-insiders x64'. The status bar at the bottom shows '196 items | 1 item selected | 107 MB'.

File Home Share View Application Tools Manage Downloads

Pin to Quick access Copy Paste Cut Copy path Move to Copy to Delete Rename New item Open New folder Easy access Properties Select all Select none Invert selection New Open Select

Clipboard Organize New Open Select

This PC > Windows 10 Home SL (C) > Users > Remix-Desktop-Insiders Setup

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Completing Remix-Desktop-Insiders Setup

Remix-Desktop-Insiders has been installed on your computer.

Click Finish to close Setup.

Run Remix-Desktop-Insiders

Finish

Back Cancel

WhatsApp Image 2024-10-08 at 12.59.27 PM (2)

WhatsApp Image 2024-10-08 at 12.59.27 PM (1)

MantraRDServi\_x64 \_1.0.8

MFS100Driver\_9.2.0

New folder (3)

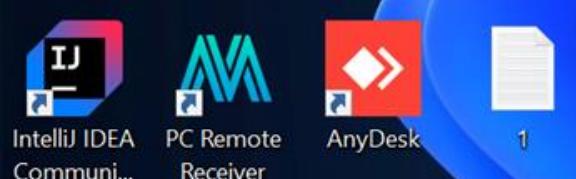
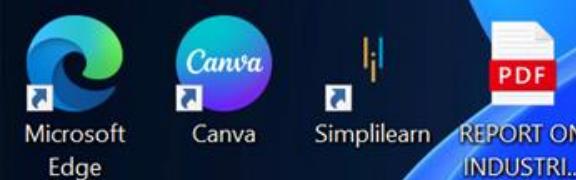
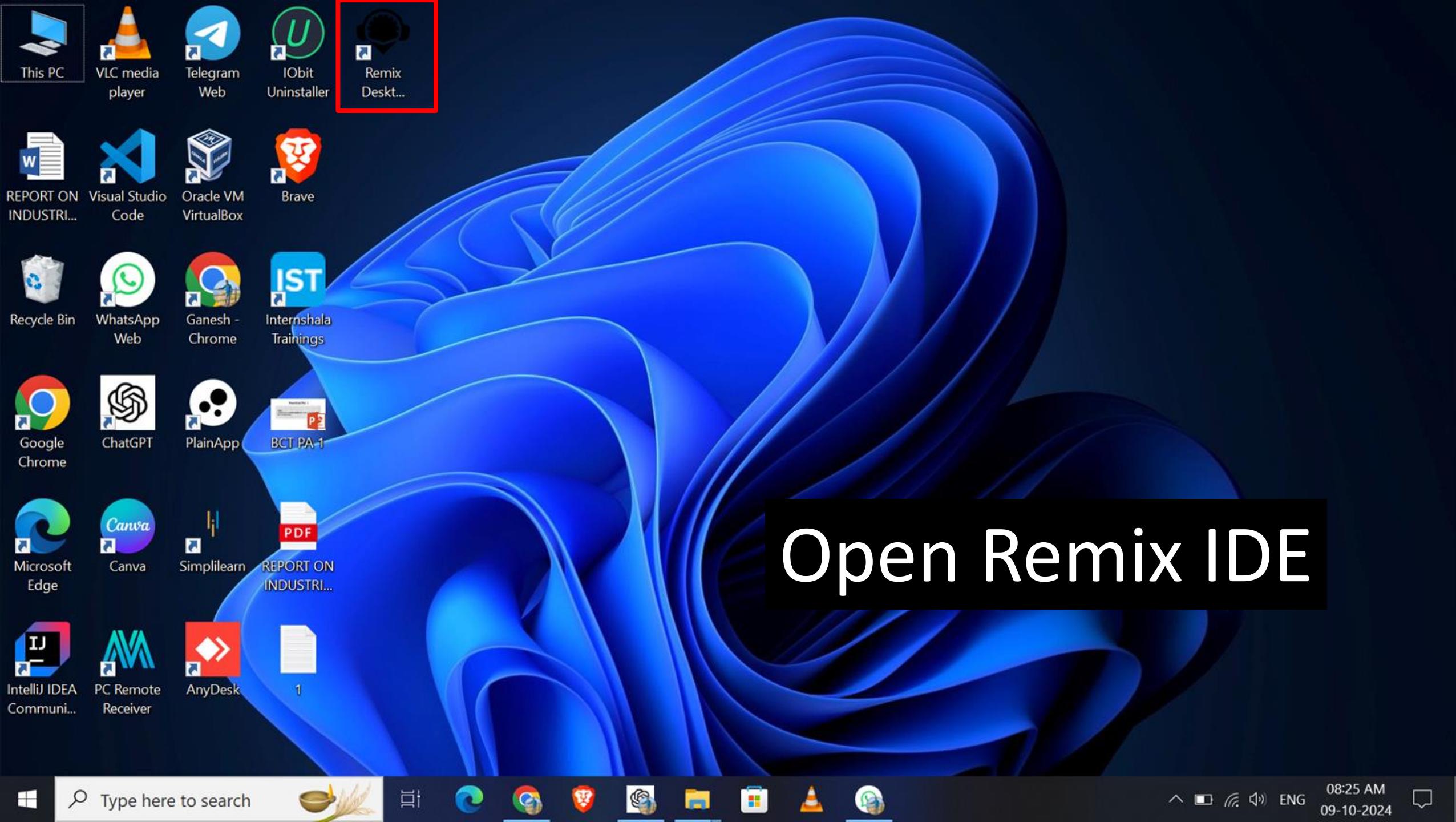
PDF PDF W

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---

# Create the Smart Contract



08:25 AM  
09-10-2024

This PC VLC media player Remix - Ethereum IDE

File Git Edit View Terminal Window Help

FILE EXPLORER

Open Folder

Welcome to Remix IDE

In order to understand your needs better, we would like to know how you typically use Remix

Learning - discovering web3 development

Prototyping - trying out concepts and techniques

Developing projects - Remix as your main dev tool

Production - only deployments

Output 0 Listen on all transactions Filter with transaction hash or address

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)

Type here to search

08:25 AM 09-10-2024 ENG

The screenshot shows a Windows desktop environment with a dark theme. A Remix - Ethereum IDE window is open in the foreground. The window title bar says "Remix - Ethereum IDE". The menu bar includes "File", "Git", "Edit", "View", "Terminal", "Window", and "Help". Below the menu is a toolbar with icons for file operations like Open, Save, and Find. The main area is titled "FILE EXPLORER" and has a "Sign in" button. A large central panel displays the "Welcome to Remix IDE" message, which asks for user usage preferences. Four options are listed: "Learning - discovering web3 development" (highlighted with a red box), "Prototyping - trying out concepts and techniques", "Developing projects - Remix as your main dev tool", and "Production - only deployments". To the right of the welcome message is a cartoon character of a blue fox-like creature with a white face and a blue collar. Below the character is a "What's New" section. At the bottom of the Remix window, there are "Output" logs (0 entries) and a "Listen on all transactions" checkbox. A status bar at the bottom of the screen shows "Did you know?" information about creating a Multi Sig Swap Hook workspace for Uniswap v4 hooks, and "RemixAI Copilot (enabled)". The taskbar at the bottom features the Windows logo, a search bar with the placeholder "Type here to search", and several pinned icons: This PC, VLC media player, Remix - Ethereum IDE, Microsoft Edge, Canva, ChatGPT, WhatsApp Web, Recycle Bin, Visual Studio Code, REPORT ON INDUSTRI..., Google Chrome, IntelliJ IDEA Communi..., and PC Remote Receiver. The system tray on the far right shows the date and time (08:25 AM 09-10-2024), battery level, signal strength, and language settings (ENG).



## FILE EXPLORER

Sign in

Open Folder

*The Native IDE for Web3 Development.*[Website](#) [Remix Desktop](#)

Search Documentation



Explore. Prototype. Create.

Start Coding

ZK Semaphore

ERC20

Uniswap V4 Hooks

NFT / ERC721

MultiSig

## Files

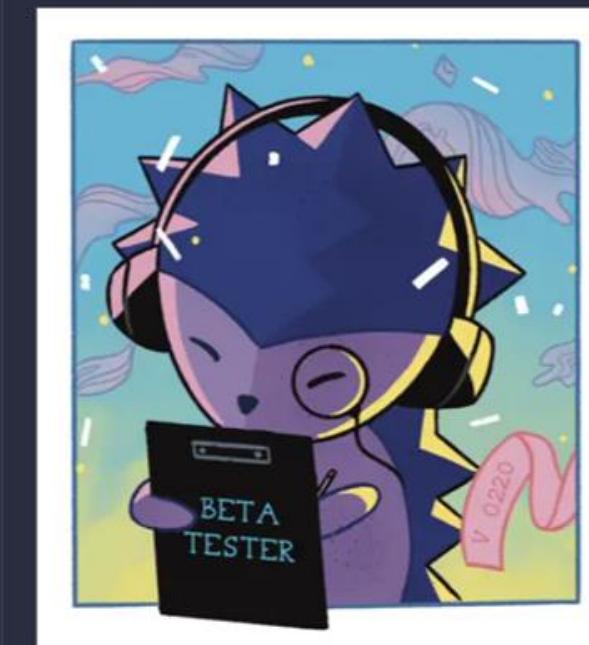
Load from

Output

v0.8.26+commit.8a97fa7a.js

&gt;

## Featured



## BETA TESTING

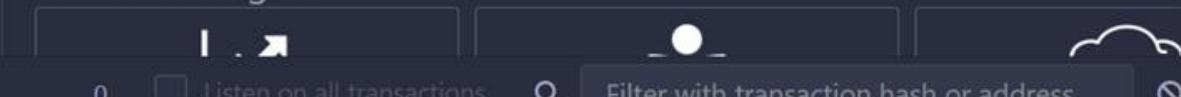
*Our community supports us.*

Help us beta test releases now and get a hand features!

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## Featured Plugins



0

 Listen on all transactions

Filter with transaction hash or address



Initialize as git repo



Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



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Open folder

X

← → ⌂ ⌃ ⌄ This PC > Desktop



Search Desktop



Organize ▾ New folder



Quick access

- Desktop
- Downloads
- Documents
- Pictures
- DART PROGRAM
- Screenshots
- songs
- VS Code

This PC

- 3D Objects
- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Windows 10 Ho...
- System Reserved

Folder: Desktop

Select Folder

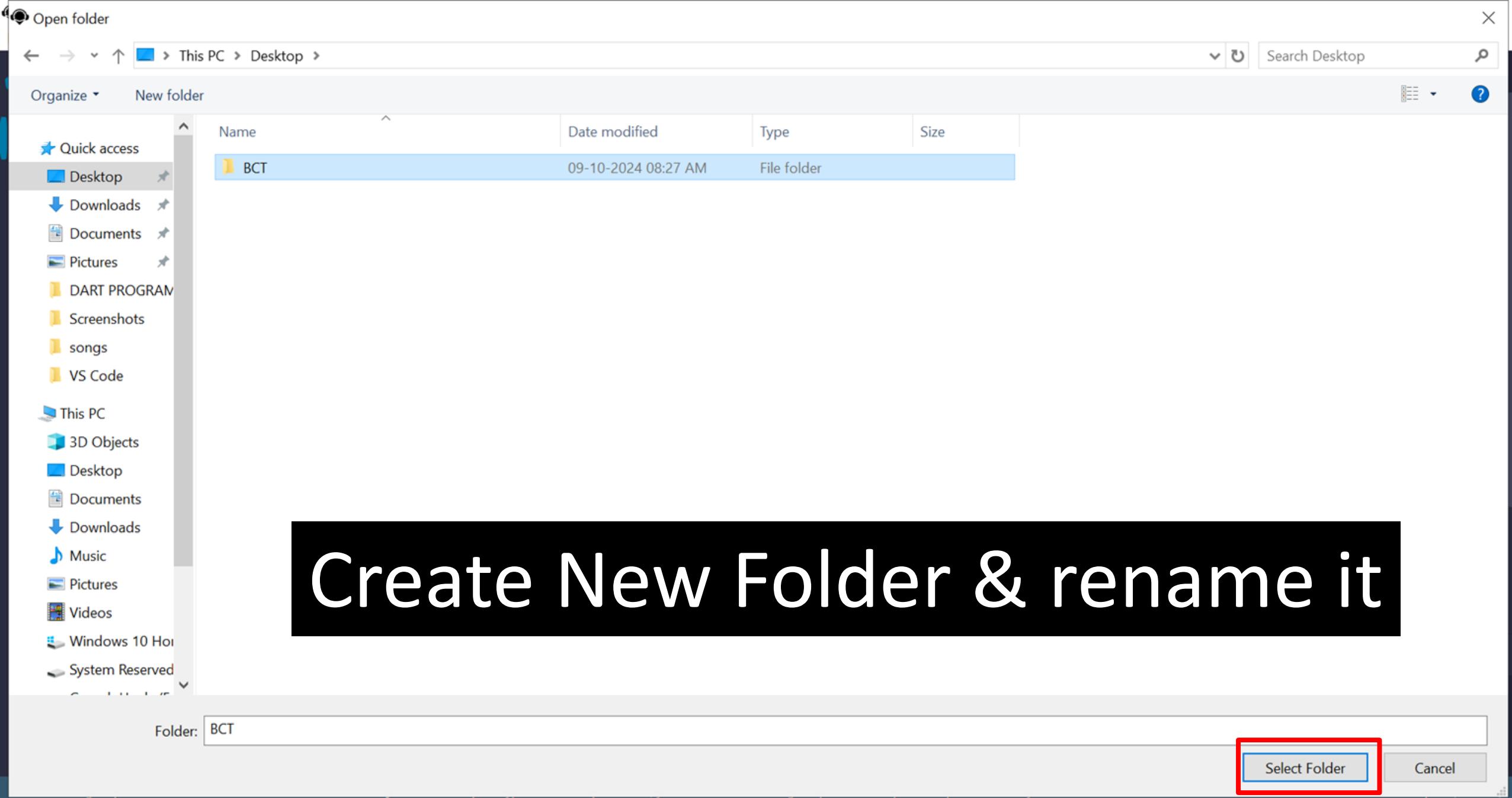
Cancel

# Choose any Location



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Type here to search





## FILE EXPLORER

✓ &gt;

C:\Users\ganes\Desktop\BCT



Sign in

Create new file

Initialize as git  
repoDid you  
know?To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template  
created by the cookbook team.RemixAI Copilot  
(enabled)

## REMIX

*The Native IDE for Web3 Development.*[Website](#) [Remix Desktop](#)

Search Documentation



Explore. Prototype. Create.



Output



0



Listen on all transactions



Type here to search



ENG

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## FILE EXPLORER

✓ &gt;



Home



SimpleBank.sol X

☰ C:/Users/ganes/Desktop/BCT

Sign  
in

1



SimpleBank.sol

2



Output



0



Listen on all transactions



Filter with transaction hash or address

v0.8.26+commit.8a97fa7a.js to soljson-v0.8.26+commit.8a97fa7a.js

&gt;

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



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# SimpleBank.sol

.sol extension is used for **Solidity** files.  
Solidity is the programming language used to  
write **smart contracts** that run on Ethereum  
and other blockchain platforms.



```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
12     int clientCounter;
13     address payable manager;
14
15     modifier onlyManager() {
16         require(msg.sender == manager, "Only manager can call this!");
17         _;
18     }
19 }
```

Output

&gt;

0

# Write a Code Here

ess

()

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



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09-10-2024



```
// SPDX-License-Identifier: MIT
pragma solidity >=0.7.0 <0.9.0;

contract SimpleBank {
    struct client_account {
        int client_id;
        address client_address;
        uint client_balance_in_ether;
    }

    client_account[] clients;
    int clientCounter;
    address payable manager;

    modifier onlyManager() {
        require(msg.sender == manager, "Only manager can call this!");
        _;
    }
}
```

Solidity compiler



Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

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## SOLIDITY COMPILER

✓ &gt; □



Home

SimpleBank.sol X

COMPILER + ↴

0.8.26+commit.8a97fa7a

 Include nightly builds Show downloaded only Auto compile Hide warnings

Advanced Configurations &gt;



↻ Compile SimpleBank.sol

Ctrl+S to compile SimpleBank.sol

Compile and Run script i

CONTRACT

SimpleBank (SimpleBank.sol)

▼ Output



0

Listen on all transactions



Filter with transaction hash or address

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



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## SOLIDITY COMPILER

✓ &gt; □



Home

SimpleBank.sol X

COMPILER + ↗

0.8.26+commit.8a97fa7a

 Include nightly builds Show downloaded only Auto compile Hide warnings

Deploy &amp; run transactions



↻ Compile SimpleBank.sol

Compile and Run script



## CONTRACT

SimpleBank (SimpleBank.sol)



↗ Run Remix Analysis



Output



0



Listen on all transactions



Filter with transaction hash or address

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



Type here to search

08:34 AM  
09-10-2024

DEPLOY & RUN  
TRANSACTIONS

Home

SimpleBank.sol X

ENVIRONMENT

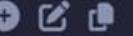


Remix VM (Cancun)



VM

ACCOUNT



0x5B3...eddC4 (100 ether)



GAS LIMIT

Estimated Gas

Custom

3000000

VALUE

0

Wei



CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
12     int clientCounter;
13     address payable manager;
14
15     modifier onlyManager() {
16         require(msg.sender == manager, "Only manager can call this!");
17         _;
18     }
19 }
```

Output



0

Listen on all transactions



Filter with transaction hash or address



Type here to search

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09-10-2024

DEPLOY & RUN  
TRANSACTIONS

SimpleBank.sol X

ENVIRONMENT

Remix VM (Cancun)



VM

ACCOUNT

0x5B3...eddC4 (100 ether)



GAS LIMIT

 Estimated Gas Custom

3000000

VALUE

0

Wei



CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy

transact (not payable)

Output



0



Listen on all transactions



Filter with transaction hash or address

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

RemixAI Copilot (enabled)



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09-10-2024



## DEPLOY &amp; RUN TRANSACTIONS



SimpleBank.sol X

ENVIRONMENT

Remix VM (Cancun)

VM

ACCOUNT

0x5B3...eddC4 (99.9999999999988)

GAS LIMIT

 Estimated Gas Custom

3000000

VALUE

0

Wei

CONTRACT

SimpleBank - SimpleBank.sol

evm version: cancun

Deploy

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
12     int clientCounter;
13     address payable manager;
```

Output

&gt;

0

 Listen on all transactions

Filter with transaction hash or address

creation of SimpleBank pending...

[vm] from: 0x5B3...eddC4 to: SimpleBank. (constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

Debug



Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS



Home

SimpleBank.sol X



ENVIRONMENT



Remix VM (Cancun)



VM



ACCOUNT



0x5B3...eddC4 (99.9999999999988)



GAS LIMIT

● Estimated Gas



Custom

3000000



VALUE

0

Wei



CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy



Home

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output



0



Listen on all transactions



Filter with transaction hash or address

creation of SimpleBank pending...



[vm] from: 0x5B3...eddC4 to: SimpleBank.(constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

Debug



status

0x1 Transaction mined and execution succeed

transaction hash

0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4



Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS



0

Wei



## CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy

 Publish to IPFS

At Address

Load contract from Address

Transactions recorded 1 ⓘ &gt;

Deployed Contracts 1 ⚡

&gt; SIMPLEBANK AT 0xD91...39138 ⚡ ⚡ X



Home



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output



0



Listen on all transactions



Filter with transaction hash or address

creation of SimpleBank pending...

✓ [vm] from: 0x5B3...eddC4 to: SimpleBank.(constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

Debug



status 0x1 Transaction mined and execution succeed

transaction hash 0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4 ⚡

Initialize as git repo

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ENG

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## DEPLOY &amp; RUN TRANSACTIONS



Transactions recorded 1 ⓘ ➤

Deployed Contracts 1 🗑

SIMPLEBANK AT 0xD91...3913 ⌂ 🗑 ✎

Balance: 0 ETH

deposit

joinAsClient

sendInterest

setManager

address managerAddress

withdraw

uint256 amount

getContractB...



Home



SimpleBank.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output



creation of SimpleBank pending...

[vm] from: 0x5B3...eddC4 to: SimpleBank.(constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

Debug



status 0x1 Transaction mined and execution succeed

transaction hash 0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4

Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS

Transactions recorded 1 ⓘ ➤

Deployed Contract Copy Address

SIMPLEBANK AT 0xD91...3913 ⚡ ⓘ ✎ ✖

Balance: 0 ETH

deposit

joinAsClient

sendInterest

setManager address managerAddress

withdraw uint256 amount

getContractB...

▶ ⚡ 🔍 🔍 🏠 Home ⚡ SimpleBank.sol ✖

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output &gt; 0 Listen on all transactions

creation of SimpleBank pending...

[vm] from: 0x5B3...eddC4 to: SimpleBank.(constructor)

value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

status 0x1 Transaction mined and execution succeed

transaction hash 0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4 ⚡

Debug



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## DEPLOY &amp; RUN TRANSACTIONS



## Deployed Contracts 1



## SIMPLEBANK AT 0xD91...39138



Balance: 0 ETH

**deposit****joinAsClient****sendInterest****setManager**

7e481eB44e9943F39138

**withdraw**

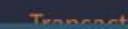
uint256 amount

**getContractB...**

## Low level interactions



## CALLDATA



```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

**Output**

Listen on all transactions



Filter with transaction hash or address

creation of SimpleBank pending...

[vm] from: 0x5B3...eddC4 to: SimpleBank. (constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

**Debug**

status 0x1 Transaction mined and execution succeed

transaction hash 0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4



Initialize as git repo

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DEPLOY & RUN  
TRANSACTIONS

## Deployed Contracts 1



## SIMPLEBANK AT 0xD91...39138



Balance: 0 ETH

**deposit****joinAsClient****sendInterest****setManager****withdraw**

uint256 amount

**getContractB...**

## Low level interactions

## CALLDATA

Transaction



Home



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output



Listen on all transactions



Filter with transaction hash or address

Manager - transact (not payable) on of SimpleBank pending...



[vm] from: 0x5B3...eddC4 to: SimpleBank. (constructor)  
value: 0 wei data: 0x608...a0033 logs: 0 hash: 0xb98...28ee4

Debug



status

0x1 Transaction mined and execution succeed

transaction hash

0xb983ed0be3230e24f52d5842da4ff77b291ca5bf93e2184f1c7f3bfe3fe28

ee4



Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS



## Deployed Contracts 1



## SIMPLEBANK AT 0xD91...39138



Balance: 0 ETH

**deposit****joinAsClient****sendInterest****setManager**

0xd9145CCE52D386f254

**withdraw**

uint256 amount

**getContractB...**

## Low level interactions



## CALLDATA



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
6         int client_id;
7         address client_address;
8         uint client_balance_in_ether;
9     }
10
11     client_account[] clients;
```

Output



Listen on all transactions



Filter with transaction hash or address

raw logs



transact to SimpleBank.setManager pending ...



[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

Debug



Initialize as git repo



Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

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DEPLOY & RUN  
TRANSACTIONS

## Deployed Contracts 1



## SIMPLEBANK AT 0xD91...39138



Balance: 0 ETH

**deposit****joinAsClient****sendInterest****setManager**

0xd9145CCE52D386f254

**withdraw**

uint256 amount

**getContractB...**

## Low level interactions



CALLDATA

Transaction



```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

## Output



Listen on all transactions



Filter with transaction hash or address

transact to SimpleBank.setManager pending ...

[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

**Debug**

status 0x1 Transaction mined and execution succeeded

transaction hash 0x98257e5bceafbeb6fe5372866172d613fb2e8f6eac62aa9653cd5d1df9acf  
70c block hash 0xb5fca3b8d6ac62debf2e13fae68cc87b167b5004dadf8998e677c0186c6f  
665 

block number 2

from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS



SimpleBank.sol X

ENVIRONMENT



Remix VM (Cancun)



VM

ACCOUNT



0x5B3...eddC4 (99.9999999999987)



GAS LIMIT

Estimated Gas

Custom

3000000

VALUE

0

Wei



CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output



0

Listen on all transactions



Filter with transaction hash or address

decoded input



decoded output



logs



raw logs



transact to SimpleBank.setManager pending ...

[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

Debug



Initialize as git repo

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DEPLOY & RUN  
TRANSACTIONS

SimpleBank.sol X

ENVIRONMENT



Remix VM (Cancun)

VM

ACCOUNT



- 0x5B3...eddC4 (99.9999999999987)
- 0x5B3...eddC4 (99.999999999998745268 ether) (highlighted)
- 0xA8...35cb2 (100 ether)
- 0x4B2...C02db (100 ether)
- 0x787...cabaB (100 ether)
- 0x617...5E7f2 (100 ether)
- 0x17F...8c372 (100 ether)
- 0x5c6...21678 (100 ether)
- 0x03C...D1Ff7 (100 ether)
- 0x1aE...E454C (100 ether)
- 0x0A0...C70DC (100 ether)
- 0xCA3...a733c (100 ether)
- 0x147...C160C (100 ether)
- 0x4B0...4D2dB (100 ether)
- 0x583...40225 (100 ether)
- 0xD8...92148 (100 ether)

Output



0

Listen on all transactions



Filter with transaction hash or address

decoded input



decoded output



logs



raw logs



transact to SimpleBank.setManager pending ...

[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

Debug



Initialize as git repo

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DEPLOY & RUN  
TRANSACTIONS

ENVIRONMENT



Remix VM (Cancun)



VM

Copy account

ACCOUNT



0xAb8...35cb2 (100 ether)



GAS LIMIT

Estimated Gas

Custom

3000000

VALUE

0

Wei



CONTRACT

SimpleBank - SimpleBank.sol



evm version: cancun

Deploy



Initialize as git repo

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DEPLOY & RUN  
TRANSACTIONS

SIMPLEBANK AT 0xD91...39138

Balance: 0 ETH

deposit

joinAsClient

sendInterest

setManager

withdraw

getContractB...

## Low level interactions

CALLDATA

Transact

▶ ⚙️ ⚡ 🔎 🔎 🏠 Home ⚡ SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Input

&gt;\_

0

Listen on all transactions



Filter with transaction hash or address

decoded input



decoded output



logs



raw logs



transact to SimpleBank.setManager pending ...

[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

Debug

Initialize as git repo

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## DEPLOY &amp; RUN TRANSACTIONS



## Deployed Contracts 1



SIMPLEBANK AT 0xD91...39138



Balance: 0 ETH

deposit

joinAsClient

sendInterest

setManager

0xd9145CCE52D386f254

withdraw

uint256 amount

getContractB...

Low level interactions

CALldata



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09:15 AM  
09-10-2024

## SimpleBank.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

## Output



Listen on all transactions



Filter with transaction hash or address

transact to SimpleBank.setManager pending ...

[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address) 0xd91...39138 value: 0 wei  
data: 0xd0e...39138 logs: 0 hash: 0x982...cf70c

Debug

transact to SimpleBank.joinAsClient pending ...

[vm] from: 0xAB8...35cb2  
to: SimpleBank.joinAsClient() 0xd91...39138 value: 0 wei  
data: 0xa40...92174 logs: 0 hash: 0x79d...e3b65

Debug

status 0x1 Transaction mined and execution succeeded

transaction hash 0x79dd51f7e0b0f5cf290985b49d58c39ed36d88036d9aee18d8fe4cbdb8ce3  
b65

block hash 0x285c1ff15ca42c3efc32354af5c1b76f5bebbdf3fc73a332404368e8454e

Initialize as git repo

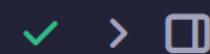
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# To Deposit Ether



## DEPLOY &amp; RUN TRANSACTIONS



## Deployed Contracts 1



## SIMPLEBANK AT 0xD91...3913



Balance: 0 ETH

deposit

joinAsClient

sendInterest

setManager

0xd9145CCE52D386f254

withdraw

uint256 amo

getContractB...



Home



SimpleBank.sol



```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

## Output



to: SimpleBank.(constructor)  
value: 0 wei data: 0x608...a0033 logs: 0  
hash: 0xb98...28ee4

Debug



[vm] from: 0x5B3...eddC4  
to: SimpleBank.setManager(address)  
0xd91...39138  
value: 0 wei data: 0xd0e...39138 logs: 0  
hash: 0x982...cf70c

Debug

# Now the balance is 0 ETH

Initialize as git repo Did you know? You can use the Recorder to record and replay your transactions to any network from the Deploy and Run plugin. RemixAI Copilot (enabled)



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12:22 PM  
13-10-2024



## DEPLOY &amp; RUN TRANSACTIONS



Remix VM (Cancun)

VM

ACCOUNT + ⚙️

0xAb8...35cb2 (99.9999999999997)

GAS LIMIT

Estimated Gas

Enter an amount to be sent with transaction and choose its unit

10



Ether



CONTRACT

SimpleBank - SimpleBank.sol

evm version: cancun

Deploy

 Publish to IPFS

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output



0

 Listen on all transactions

Filter with transaction hash or address

data: 0xaue...39138 logs: 0 hash: 0x982...ci / UC

transact to SimpleBank.joinAsClient pending ...

[vm] from: 0xAb8...35cb2  
to: SimpleBank.joinAsClient() 0xd91...39138 value: 0 wei  
data: 0xa40...92174 logs: 0 hash: 0x79d...e3b65

status 0x1 Transaction mined and execution succeed

transaction hash 0x79dd51f7e0b0f5cf290985b49d58c39ed36d88036d9aee18d8fe4cbdb8ce3

b65

block hash 0x285c1ff15ca42c3efc32354af5c1b76f5bebbdf3fc73a332404368e8454e

b33

# Enter Value 10 and Select Unit ETH

Initialize as git repo

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ENG

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09-10-2024



## DEPLOY & RUN TRANSACTIONS

## Transactions recorded 4 (i)

Deployed Contracts 1

◀ SIMPLEBANK AT 0xD91...3913{ └ ─

**Balance: 10 ETH**

## deposit

## joinAsClient

## sendInterest

### **setManager**

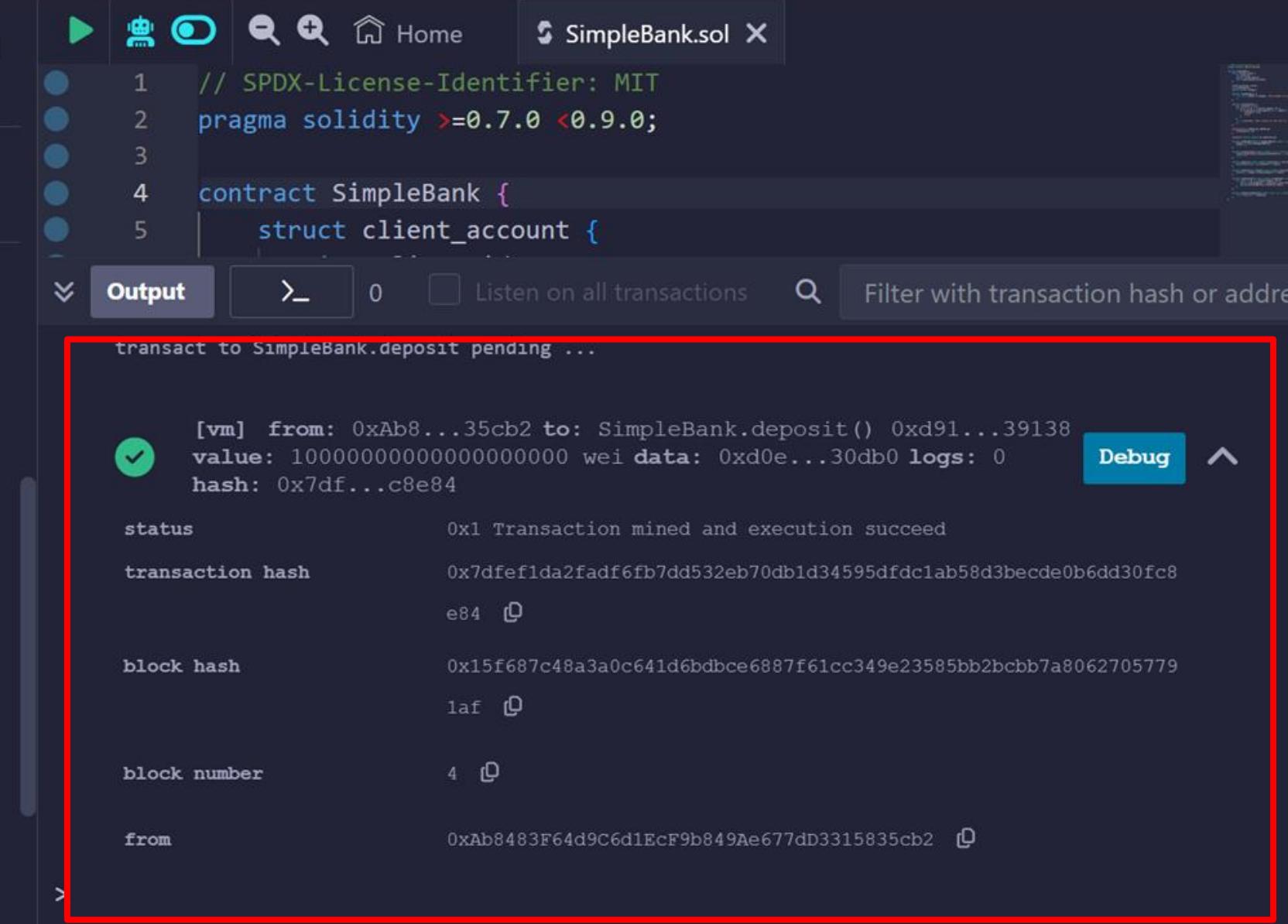
## **withdraw**

## getContractB...

## Initialize as git repo

**Did you know?** To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team

RemixAI Copilot (enabled)





## DEPLOY & RUN TRANSACTIONS

## Transactions recorded

## Deployed Contracts 1

▼ SIMPLEBANK AT 0xD91...3913{ D P

**Balance:** 10 ETH

## deposit

## joinAsClient

sendInterest

## setManager

### **withdraw**

## **getContractB...**

Now Check the Balance is 10 ETH

## Initialize as git repo

 **Did you know?** To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team

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# To Withdraw Ether



## DEPLOY &amp; RUN TRANSACTIONS

Balance: 10 ETH

deposit

joinAsClient

sendInterest

setManager

withdraw

0xd9145CCE52D386f254

5

getContractB...

Low level interactions

CALLDATA

Transact

block number

4

block hash

1af

0x15f687c48a3a0c641d6bdbce6887f61cc349e23585bb2bcbb7a8062705779

Enter the Amount of Ether to Withdraw out of 10

For Example: Enter 5 ETH

SimpleBank.sol

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output

&gt;

0

Listen on all transactions

Q

Filter with transaction hash or address

transact to SimpleBank.deposit pending ...

[vm] from: 0xAB8...35cb2 to: SimpleBank.deposit() 0xd91...39138  
value: 1000  
hash: 0x7df...c8e84

Debug

status 0x1 Transaction mined and execution succeed

transaction hash 0x7dfef1da2fadf6fb7dd532eb70db1d34595dfdc1ab58d3becde0b6dd30fc8  
e84

block hash

1af

block number

4



## DEPLOY &amp; RUN TRANSACTIONS

Balance: 5 ETH

deposit

joinAsClient

sendInterest

setManager

withdraw

getContractB...

Low level interactions

CALLDATA



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output

&gt;

0

Listen on all transactions



Filter with transaction hash or address

transact to SimpleBank.withdraw pending ...

[vm] from: 0xAb8...35cb2  
to: SimpleBank.withdraw(uint256) 0xd91...39138 value: 0 wei  
data: 0x2e1...00005 logs: 0 hash: 0xb3...479ff

Debug

status

0x1 Transaction mined and execution succeed

transaction hash

0xb3dcf73a6d2b623bd27695de097fa433c84931ce9c14117392fa1d31d147

9ff

block hash

0xd50140cb41519f43a73ef8f225536bb6b39a90077dd219a2b9a0382554a6d

ce8

# Click On Withdraw Button

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

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09-10-2024



## DEPLOY &amp; RUN TRANSACTIONS

✓ &gt; □

Balance: 5 ETH

deposit

joinAsClient

sendInterest

setManager

0xd9145CCE52D386f254917e481eB44e

withdraw

5

getContractB...

Low level interactions

CALLDATA

▶ ⚙ 🔍 🔎 🏠 Home

SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

▼ Output

transact to SimpleBank.deposit pending ...

[vm] from: 0xAb8...35cb2  
to: SimpleBank.deposit() 0xd91...39138 value: 0 wei  
data: 0xd0e...30db0 logs: 0 hash: 0xf80...aa5f0

status 0x1 Transaction mined and execution succeed

transaction hash 0xf8047d4a995b3ec625fa9189dfa7f5db95849aa0482ce91e31ca3  
c22268aa5f0 ↗

block hash 0xea13c43e3253035e2509c239974831b0efb5c93ee8a361c0b91ef  
bf83cf2e8d ↗

Debug



# Now Check the Balance is 5 ETH Remaining

Initialize as git repo

Did you know? To prototype on a uniswap v4 hooks, you can create a Multi Sig Swap Hook workspace. Template created by the cookbook team.

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09:37 AM  
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# To Show Balance



## DEPLOY &amp; RUN TRANSACTIONS

## Deployed Contracts 1

SIMPLEBANK AT 0xD91...3913



Balance: 5 ETH

deposit

joinAsClient

sendInterest

setManager

0xd9145CCE52D386f252

withdraw

5

getContractB...



Home



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output

Checking for update...

App is already up to date.

call to SimpleBank.getContractBalance

[call]  
from:  
0x4B20993Bc481177ec7E8f571ceCaE8A9e22C0  
2db  
to: SimpleBank.getContractBalance()  
data: 0x6f9...fb98a

Debug

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## DEPLOY &amp; RUN TRANSACTIONS

deposit

joinAsClient

sendInterest

setManager

0xd9145CCE52D386f254

withdraw

5

getContractB...

getContractBalance - call

0: uint256: 50000000000000000000000000000000

Low level interactions



CALLDATA

Transact



SimpleBank.sol X

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity >=0.7.0 <0.9.0;
3
4 contract SimpleBank {
5     struct client_account {
```

Output

&gt;\_

0

 Listen on all transactions

Checking for update...

App is already up to date.

call to SimpleBank.getContractBalance

[call]  
from:  
0x4B20993Bc481177ec7E8f571ceCaE8A9e22C0  
2db  
to: SimpleBank.getContractBalance()  
data: 0x6f9...fb98a

Debug



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1

*Thank You!*