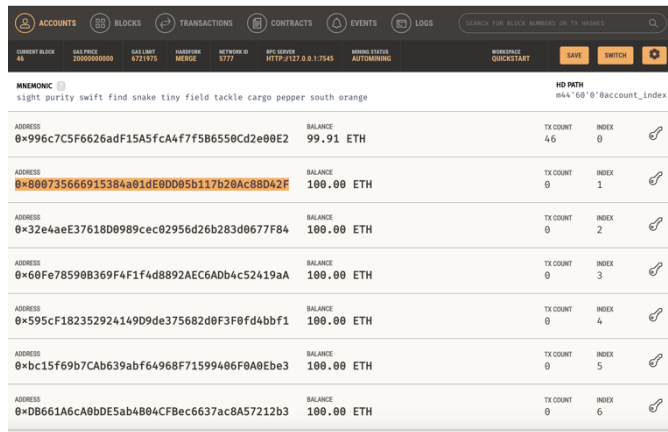


進階創新科技技術 Lab 5

資管碩一 112356023 王博揚

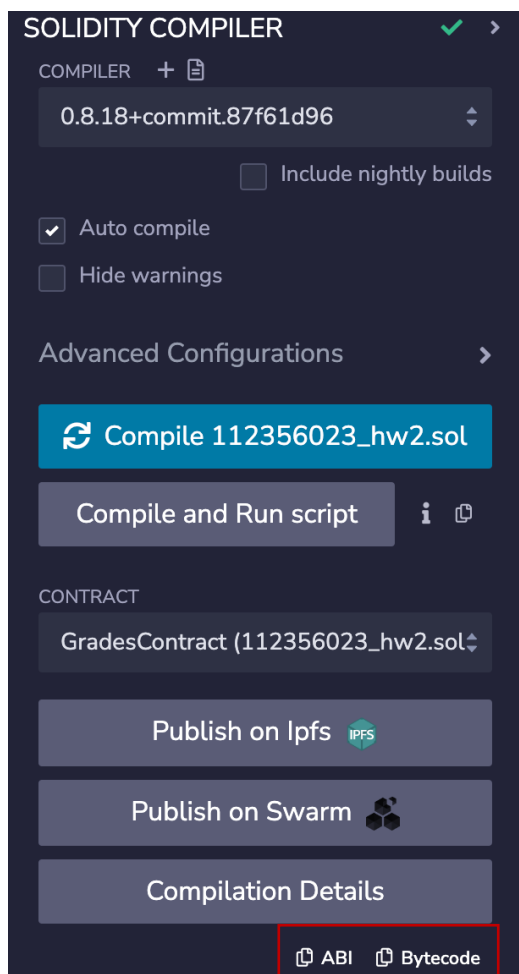
1. 用 Ganache 假設本地端的節點



The screenshot shows the Ganache desktop application interface. At the top, there are tabs for ACCOUNTS, BLOCKS, TRANSACTIONS, CONTRACTS, EVENTS, and LOGS. Below the tabs, there's a search bar and a table of accounts. The table has columns for ADDRESS, BALANCE, TX COUNT, and INDEX. The first account is highlighted in orange.

ADDRESS	BALANCE	TX COUNT	INDEX
0x996c7C5F6626adF15A5fcA4f7F5B6550Cd2e00E2	99.91 ETH	46	0
0x80735666915384a01dE0DD05b117b20Ac88D42f	100.00 ETH	0	1
0x32e4aeE37618D0989cec02956d26b283d0677F84	100.00 ETH	0	2
0x60Fe78590B369F4F1f4d8892AEC6ADb4c52419aA	100.00 ETH	0	3
0x595cF182352924149D9de375682d0F3F8fd4bbf1	100.00 ETH	0	4
0xbc15f69b7cAb639abf64968F71599406F8A0Ebe3	100.00 ETH	0	5
0xDB661A6cA0bDE5ab4B04CFBec6637ac8A57212b3	100.00 ETH	0	6

2. ABI 及 Bytecode



The screenshot shows the Solidity Compiler interface. At the top, there's a green checkmark and a dropdown menu for the compiler version, currently set to 0.8.18+commit.87f61d96. Below the dropdown, there are checkboxes for 'Include nightly builds', 'Auto compile', and 'Hide warnings'. The 'Auto compile' checkbox is checked. Under 'Advanced Configurations', there's a button to 'Compile 112356023_hw2.sol'. Below that, there's a button to 'Compile and Run script'. Under 'CONTRACT', there's a dropdown menu for the contract name, currently set to 'GradesContract (112356023_hw2.sol)'. Below the contract name, there are three buttons: 'Publish on Ipfs', 'Publish on Swarm', and 'Compilation Details'. At the bottom, there are two buttons: 'ABI' and 'Bytecode', both of which are highlighted with a red box.

3. 將 LAB5.html 補全，須完成所有功能並截圖

DeployContract

contract address: 0x542413a6A17085B88aF5bD3238e4d60aA3b5Cf01

Add Subject

subjectName: Math

AddSubject

add subject success

Put Subject Grade

studentId: 0xb00735666915384a61 subjectName: Math subjectGrade: 90

PutSubjectGrade

#put Subject Grade Success

Get Grades Sum

studentId: 0xb00735666915384a61

GetGradesSum

grades sum: 90

Get Grades Average

studentId: 0xb00735666915384a61

GetGradesAverage

grades average: 90

Get Subject Grade

studentId: 0xb00735666915384a61 subjectName: Math

GetSubjectGrade

subject grade: 90

Get Class Grades Average

GetClassGradesAverage

class average: 90

DevTools is now available in Chinese!

Always match Chrome's language Switch DevTools to Chinese Don't show again

Elements Console Sources Network Performance >>

Filter Default levels 1 Issue

defaultAccount: 0x996c7C5F6626adF15A5fca47f75B6558Cd2e00E2 lab5_test1.html:237

transactionHash: lab5_test1.html:260

0x3d22c816cd4ca14789020b229260f31f83749be1d5842298f392770dc842930b

receipt: lab5_test1.html:263

{transactionHash: '0x3d22c816cd4ca14789020b229260f31f83749be1d5842298f392770dc842930b',

transactionIndex: 0n, blockNumber: 50n, blockHash: '0xaaadeecb7b6d51d6be6cb1bee6e31f4

b9fdac43f12b530c63820c87fc2266d', from: '0x996c7c5f6626adF15a5fca47f75b6550cd2e00e

2', ...}

newContractInstance's address: lab5_test1.html:267

0x542413a6A17085B88aF5bD3238e4d60aA3b5Cf01

transactionHash: lab5_test1.html:290

0x53890d01feeaaa3952a98dee077a193f6af74ff8d9a588f99083257958fd2c8b

receipt: lab5_test1.html:293

{transactionHash: '0x53890d01feeaaa3952a98dee077a193f6af74ff8d9a588f99083257958fd2c8b',

transactionIndex: 0n, blockNumber: 51n, blockHash: '0xff625ed3fa49a7a6379792dc0f4b00a5

106c3ba8c9b0b6f16a76b24fb15dbfc', from: '0x996c7c5f6626adF15a5fca47f75b6550cd2e00e

2', ...}

add subject success lab5_test1.html:296

transactionHash: lab5_test1.html:327

0x3028e50a77374dbfce77750bc27ec34a5c36afb205c27c9cc4f4d32330eae769

receipt: lab5_test1.html:330

{transactionHash: '0x3028e50a77374dbfce77750bc27ec34a5c36afb205c27c9cc4f4d32330eae769',

transactionIndex: 0n, blockNumber: 52n, blockHash: '0x3d0281009e05450a6df831291bc769e58

b001c0282e8e5153a640050c68146f', from: '0x996c7c5f6626adF15a5fca47f75b6550cd2e00e

2', ...}

put Subject Grade Success lab5_test1.html:333

get Grade Sum Success lab5_test1.html:356

get Grade Average Success lab5_test1.html:379

get Subject Grade Success lab5_test1.html:404

get Class Grades Average Success lab5_test1.html:428