

創新科技技術 Lab1 作業

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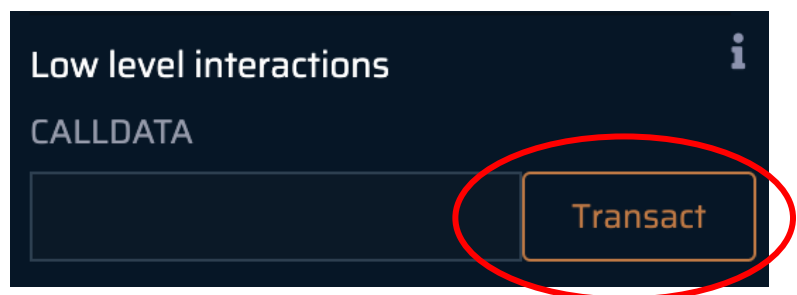
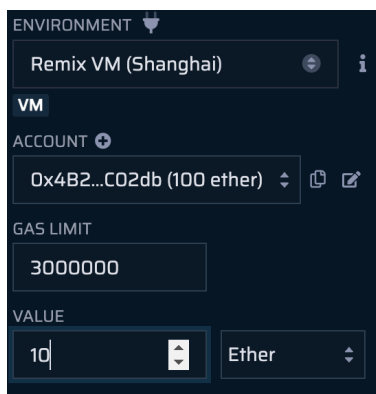
2. 請說明此合約如何接收他人的轉帳 (15%) ? 並用 owner 之外的帳號












轉帳 10 Ether `receive() external payable {}` 給 EtherWallet，並截圖(15%)。

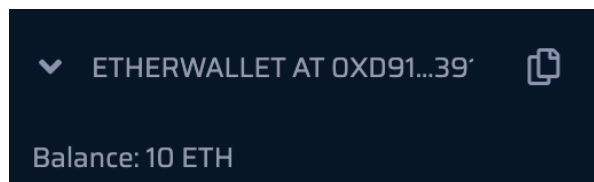
Ans：此合約透過這個 Function 進行接收他人轉帳的行為。如要利用 owner 外的帳號進行轉帳，則需先用 owner 帳號部署合約，

```
✓ [vm] from: 0x5B3...eddC4 to: EtherWallet.(constructor) value: 0 wei data: 0x608...20033 logs: 0 hash: 0x3f9...693f4
status true Transaction mined and execution succeed
transaction hash 0x3f929bd12fca6423eb94a7bb11e1aadd97ee1acf1f0dcd69212d8c8c450693f4
block hash 0x381df8657d46c22b4f8b2e9e4d7c3d73187603ca4d82eb17b4125e0419fc3f62
block number 1
contract address 0xd9145CCE52D386f254917e481eB44e9943F39138
from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to EtherWallet.(constructor)
```

並切換到 B 帳號，並輸入 10 Ether 後按下 Transact，即可成功用 owner 之外的帳號轉帳 10 Ether 給 EtherWallet。



status	true Transaction mined and execution succeed
transaction hash	0x476eb5fd4e626569fe1f1a29ab75ba89895f7a4640630a527e0cb38fd131739c 
block hash	0xc9bbdccb2de0230f86dda29a3d2d44518f1b620b6281387e37ec4802ea448916 
block number	2 
from	0x4B20993Bc481177ec7E8f571ceCaE8A9e22C02db 
to	EtherWallet.(receive) 0xd9145CCE52D386f254917e481eB44e9943F39138 
gas	24214 gas 
transaction cost	21055 gas 
execution cost	55 gas 
input	0x 
decoded input	- 
decoded output	- 
logs	[]  
val	10000000000000000000 wei 



3. 請說明此合約如何提現 (15%) ? 並用 owner 的帳號提現出 1 Ether 並截圖(15%)。

Ans：此合約透過這個

```
function withdraw(uint _amount) external onlyOwner {
    payable(msg.sender).transfer(_amount);
}
```

Function 進行提現。

將 Account 調整到 owner 的帳戶，並在合約 withdraw

function 填上 10000000000000000000 (這裡的單位是 wei)。

即可成功提領出 1 Ether 至 owner 帳號

```

status                                true Transaction mined and execution succeed
transaction hash                       0xe862bd0128464e72cdb438cb4526fa759a4fa5f2a465d53a6186959754db8640
block hash                            0xa62842a73740961d3b3ed6822352bdd4663d3b3ea59ae66752d3308b9d24491f
block number                          3
from                                  0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to                                    EtherWallet.withdraw(uint256) 0xd9145CCE52D386f254917e481eB44e9943F39138
gas                                    35378 gas
transaction cost                       30763 gas
execution cost                         9499 gas
input                                  0x2e1...40000
decoded input                          {
                                         "uint256 _amount": "1000000000000000000"
                                     }
decoded output                         {}
logs                                   []

```

✓ 0x5B3...eddC4 (100.9999999999999319597 ether)
0xA8b...35cb2 (100 ether)
0x4B2...C02db (89.9999999999999978945 ether)
0x787...cabaB (100 ether)
0x617...5E7f2 (100 ether)

▼ ETHERWALLET AT 0XD91...39'

Balance: 9 ETH