**CCMP 606 - Orchestration of Cloud Resources  
Assignment 1 Report**

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# Compile PiggyBank.sol

The screenshot(s) show PiggyBank.sol has no compile errors on Remix IDE. (0.5 points)

Compile:

A screenshot of a computer

Description automatically generated

Deploy:

First, check the Injected Provider – MetaMask account

A screenshot of a computer

Description automatically generated

Secondly, click Deploying:

A screenshot of a computer

Description automatically generated

Lastly, Confirm to see the deploy success:

A screenshot of a computer

Description automatically generated

Double check on Sepolia etherscan:

A screenshot of a computer

Description automatically generated

# Sepolia ETH on MetaMask

Get faucet from [https://sepoliafaucet.com/](mailto:https://sepoliafaucet.com/)

A screenshot of a computer

Description automatically generated

# Smart Contract Address on the Etherscan Webpage

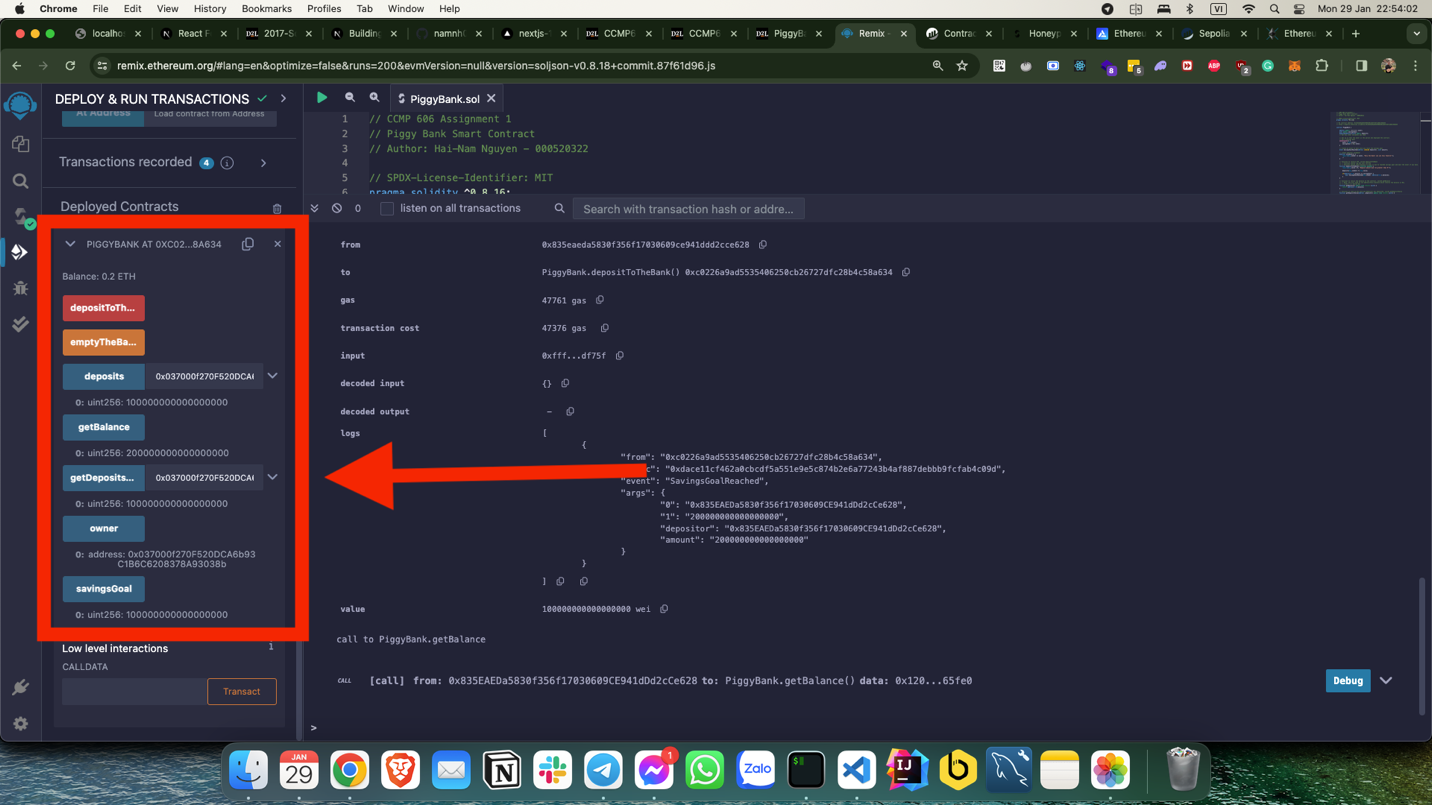
The address: [https://sepolia.etherscan.io/address/0xc0226a9ad5535406250cb26727dfc28b4c58a634](mailto:https://sepolia.etherscan.io/address/0xc0226a9ad5535406250cb26727dfc28b4c58a634)

A screenshot of a computer

Description automatically generated

# Contract Balance on Remix IDE

After deposit:



Also on Sepolia Etherscan:

A screenshot of a computer

Description automatically generated

# Explanations and Show How the Functions Work

1. Function depositToTheBankA computer screen shot of text

   Description automatically generated

Overview, this function check how much the ether will be sent to the contract, it must be greater than 0 otherwise the error log will display. After require check, the mapping deposits will store the address of who send ether and cumulative the value he/she sent. The last one is the If condition to check whether the balance of this contract is equal or larger than savingsGoal or not. If yes, the event SavingsGoalReached will be emitted.

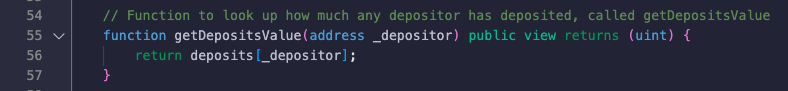
1. Function getBalance

A screen shot of a computer code

Description automatically generated

This function can be called by anyone and return the balance of this contract in wei.

1. Function getDepositsValue



This function receives an address and return the wei that this address sent to the contract if exists.

1. Function emptyTheBank

A screen shot of a computer code

Description automatically generated

This function stricted by onlyOwner can call.

A black background with white text

Description automatically generated

It checks whether the balance of this contract is greater or equal the savingsGoal. If the balance matched condition, the ether in this contract will be transferred to the owner address.

After this function invoked, the contract address looks like this:

A screenshot of a computer

Description automatically generated

Functions worked:

A screenshot of a computer

Description automatically generated