A3-

//Complier: https://codedamn.com/online-compiler/solidity

// SPDX-License-Identifier: MIT

pragma solidity ^0.8.0;

contract BankAccount {

address public owner;

uint256 public balance;

constructor() {

owner = msg.sender;

balance = 0;

}

modifier onlyOwner() {

require(msg.sender == owner, "Only the owner can perform this operation");

\_;

}

function deposit(uint256 amount) public onlyOwner {

require(amount > 0, "Deposit amount must be greater than 0");

balance += amount;

}

function withdraw(uint256 amount) public onlyOwner {

require(amount > 0, "Withdraw amount must be greater than 0");

require(balance >= amount, "Insufficient balance");

balance -= amount;

}

function showBalance() public view returns (uint256) {

return balance;

}

}

A4-

// SPDX-License-Identifier: MIT

pragma solidity ^0.8.0;

contract StudentData {

struct Student {

string name;

uint256 rollNumber;

uint256 age;

}

Student[] public students;

address public owner;

constructor() {

owner = msg.sender;

}

modifier onlyOwner() {

require(msg.sender == owner, "Only the owner can perform this operation");

\_;

}

function addStudent(string memory \_name, uint256 \_rollNumber, uint256 \_age) public onlyOwner {

Student memory newStudent = Student(\_name, \_rollNumber, \_age);

students.push(newStudent);

}

function getStudentCount() public view returns (uint256) {

return students.length;

}

function getStudent(uint256 index) public view returns (string memory, uint256, uint256) {

require(index < students.length, "Invalid index");

Student memory student = students[index];

return (student.name, student.rollNumber, student.age);

}

fallback() external {

revert("Fallback function: This contract does not accept Ether.");

}

}

A1&A2 (same metamask)-

-Open metamask extension download on google

-add extension

-then metamask is opened(sepolia)

-type password of your account or those missing words

-copy that address above there

-open Mumbai faucet

-in that open etherum sepolia

-login into that

-paste that copied address there

-then on metamask site you will see 0.5 sepolia

-you can also send that crypto to another account.