

1. Explain about the rules that govern and decide the data location of a variable in EVM.
2. Write a program in solidity to create 'Student' data using structures and arrays. How to deploy this as a smart contract on Ethereum using Metamask?
3. Write a smart contract for Marks Management System by using Solidity. In this contract, the details of every student like student ID, Name, Marks can be added and if one wants to give some bonus marks to students then they can also be added. After building the contract all the details of every student can be retrieved.
4. Create a Smart Contract for a banking application in solidity that allows users to do the following:
  - a. Deposit money into your account
  - b. Withdraw money from your account
  - c. Check balance
5. Design a smart contract for real estate application in solidity that allows users to do the following:
  - a. You should be able to add the property details to the blockchain,
  - b. query the property details from the blockchain and
  - c. should be able to change the ownership of the property appropriately.
6. Write a smart contract in Solidity for agricultural supply chain management that tracks the journey of a product through different stages—Offered, Processed, Distributed, ForSale, and Sold. Each stage should be accessible only in a specific order, and the contract should log events for traceability. Include functionality to visualize the product's journey at any time.
7. Write a Solidity smart contract that uses a struct to represent a person's details (including id, name, age, and walletAddress) and a mapping to associate each person's unique ID with their corresponding data. The contract should include functions to:
  - a. Add a new person (auto-incrementing ID).
  - b. Retrieve a person's details by ID.
  - c. Update a person's information.
  - d. Delete a person's record by ID.

Use the struct and mapping constructs effectively to manage and access person data within the contract.