

Lab Assignment 2: Smart contracts using Solidity Programming

Smart Contracts: Smart contracts are lines of code that are stored on a blockchain and automatically execute when predetermined terms and conditions are met.

1. Developing a simple contract
2. Compiling the contract
3. Deploying the contract
4. Interacting with the contract
5. Adding more functions to our code to make it more practical.

Remix IDE: Remix is a Solidity IDE that's used to write, compile and debug Solidity code. Solidity is a high-level, contract-oriented programming language for writing smart contracts. It was influenced by popular languages such as C++, Python and JavaScript.

URL: remix.ethereum.org

Write a solidity smart contracts to perform the following tasks:

- a) Transferring funds from an account to the contract using payable.
- b) Saving the address of the contract creator
- c) Withdrawing funds from the contract to an account
- d) Limiting the users' access to functions (Transfer some funds from the contract's balance to the owner). Only the contract's creator is permitted to withdraw.