# Blockchain Projects (Mini)



1. Simple Bank

Format to write the code:

S1 - pragma 56 - Modifiers

52 - contract

57- Functions

S3 - Struct

sy - Mapping

S5 - Events

# Code:

91 - Pryma Estarting 3

pragma solidity >= 0.8.19;

version of the solidity

52 - Contract and S3-Struct

contract Bank {

struct Account &

address owner; 3 by whom the Account will

uint256 balance; 3 what is the balance in acc

uint 256 Acc Time 3 when was the account created

54 - Mapping

mapping (address => Account) public Laximchitfund;

The address is the key Account stores (owner, balance, time)

so according to what us address is that maps to the Account details of was.



### SS- Events



#### event balance Added

It is called when an Account is created with some minimum balance deposit.

#### event WithdrawalDone

It is called when balance present in the Account is withdrawn

## 56- Modifier

#### minimum ()

It ensures that any deposit is made to the Account is more than or equal to 1 and not less than 1.

#### 57- Functions

#### 1. Acc Created ()

To useate the account by taking address as the owner, value entered as initial deposit to the bank to be the balance of the Account (msg. value) and also shows time by block timestamp.

## 2. Deposit()

To deposit the value taken from msg. sender to be added in the balance.

### 3. Withdrew ()

new var, amount = msg. value requires balance to be greater than amount, the amount is deducted from the balance, and balance is updated.

