**#bt15**

**// SPDX-License-Identifier: MIT**

**pragma solidity >=0.7.0 <0.9.0;**

**contract DBank**

**{**

**address Owner;**

**// We are creating the Mapping for the Adding & Transfer Amount in Account**

**mapping(address=>uint)Balance;**

**// constructor for the address of the Owner**

**constructor()**

**{**

**Owner = msg.sender;**

**}**

**// function for adding the Ethereum in Account**

**function addBalance(uint amount) public returns(uint)**

**{**

**// first we have to check the is it Owners Account or Not**

**require(msg.sender == Owner, "Yes it is Owner Account !!");**

**Balance[msg.sender] = Balance[msg.sender] + amount;**

**return Balance[msg.sender];**

**}**

**// function for Get the Balance from an Account**

**function getBalance() public view returns(uint)**

**{**

**return Balance[msg.sender];**

**}**

**// to transfer the Amount from Owner to Recipient**

**function Transfer(address recipient, uint amount) public**

**{**

**// check the Self account is or not**

**require(msg.sender != recipient, "Can't Transfer !! Self Account.");**

**// check the owner has balance is available or not**

**require(Balance[msg.sender] >= amount, "No, We Can't Transfer. Insufficient Balance !!");**

**\_transfer(msg.sender, recipient, amount);**

**}**

**function \_transfer(address From, address To, uint Amount) private**

**{**

**Balance[From] = Balance[From] - Amount;**

**Balance[To] = Balance[To] + Amount;**

**}**

**}**