ASSIGNMENT NO.3

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Roll No.: COBB059

```
Input:
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memory){

```
//SPDX-License-Identifier: MIT
pragma solidity ^0.6;
contract banking{
  mapping(address=>uint) public user_account;
  mapping(address=>bool) public user_exists;
  function create_account() public payable returns(string memory){
    require(user exists[msg.sender]==false,'Account already created');
    if(msg.value==0){
       user_account[msg.sender]=0;
       user_exists[msg.sender]=true;
       return "Account created":
    require(user_exists[msg.sender]==false,"Account already created");
    user account[msg.sender]=msg.value;
    user_exists[msg.sender]=true;
    return "Account created";
  }
  function deposit() public payable returns(string memory){
    require(user_exists[msg.sender]==true,"Account not created");
    require(msg.value>0,"Value for deposit is Zero");
    user account[msg.sender]=user account[msg.sender]+msg.value;
    return "Deposited Successfully";
  }
  function withdraw(uint amount) public payable returns(string memory){
    require(user_account[msg.sender]>amount,"Insufficient Balance");
    require(user_exists[msg.sender]==true,"Account not created");
    require(amount>0,"Amount should be more than zero");
    user_account[msg.sender]=user_account[msg.sender]-amount;
    msg.sender.transfer(amount);
    return "Withdrawl Successful";
  function transfer(address payable userAddress, uint amount) public returns(string memory){
    require(user_account[msg.sender]>amount,"Insufficient balance in Bank account");
    require(user_exists[msg.sender]==true,"Account is not created");
    require(user exists[userAddress]==true,"Transfer account does not exist");
    require(amount>0,"Amount should be more than zero");
    user_account[msg.sender]=user_account[msg.sender]-amount;
    user account[userAddress]=user account[userAddress]+amount;
    return "Transfer Successful";
  }
  function send_amt(address payable toAddress, uint256 amount) public payable returns(string
```

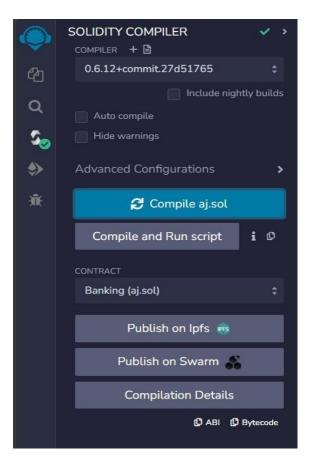
```
require(user_account[msg.sender]>amount,"Insufficeint balance in Bank account");
require(user_exists[msg.sender]==true,"Account is not created");
require(amount>0,"Amount should be more than zero");
user_account[msg.sender]=user_account[msg.sender]-amount;
toAddress.transfer(amount);
return "Transfer Success";
}

function user_balance() public view returns(uint){
   return user_account[msg.sender];
}

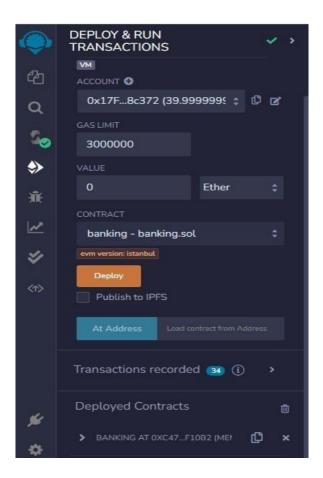
function account_exist() public view returns(bool){
   return user_exists[msg.sender];
}
```

Output:

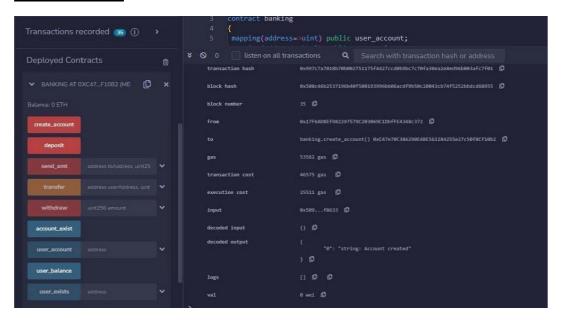
Compile SOL code -



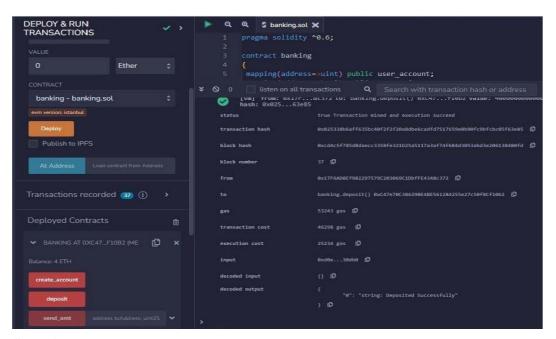
Deploy contract –



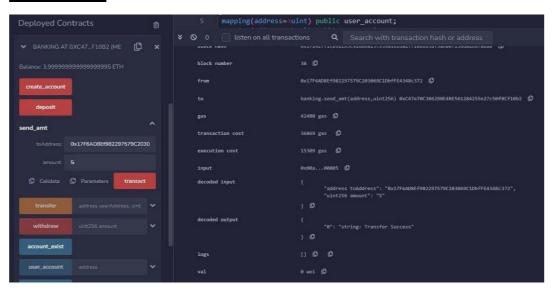
Create Account -



Deposit Amount –



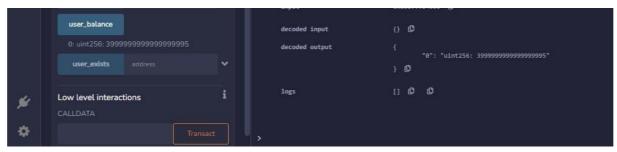
Send Amount –



Check Account Exists –



Check User Balance –



<u>Withdraw Amount</u> –

