**Solidity Assignment**

**Phase - 2 ( KYC smart contract using remix)**

Submitted By : Manikandan Ramesh

**Deployment Instructions:**

1. Copy code from KYC.sol and paste in Remix IDE.

2. Press **Ctrl +S** to compile contract.

3. Switch to **Run** Tab

4. Change the Gas limit to **6000000**

A screenshot of a cell phone

Description automatically generated

5. To deploy smart contract press Deploy Button.

A screenshot of a cell phone

Description automatically generated

**Execution Instructions:**

|  |
| --- |
| ***Note:***  *Contract deployed by address will act as admin for KYC contract.* |

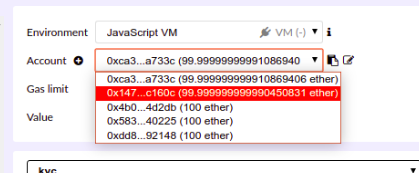
**1. addBank()**

Input : "sbi","sbi1","0x14723a09acff6d2a60dcdf7aa4aff308fddc160c",true

A screenshot of a cell phone

Description automatically generated

|  |
| --- |
| ***Note:***  *For Bank function to execute, please change the execution address to 2nd from list* |



**2. addCustomer()**

Input : "mani","32ead53416df3093100403ee44d5eb045ed5bb3b5105dafa3e137a359f60cbc7"

A screenshot of a cell phone

Description automatically generated

**3.modifiyCustomer()**

INPUT: "mani"," f61622fdc7ab3ac33b32335b853f9889d486a0c5b2493353470ae3874c8bda0f "

A screenshot of a cell phone

Description automatically generated

**4. addRequest()**

Input : "mani","0x14723A09ACff6D2A60DcdF7aA4AFf308FDDC160C"

A screenshot of a cell phone

Description automatically generated

**5. updateKycVotes()**

Input: "mani",true

|  |
| --- |
| ***Note :***  ***Perform updateKycVotes 6 times***  *As currently there is only 1 bank created.*  *If there are more banks created by admin, please switch the respective bank’s address to perform updateKycVotes. To simulate votes by different banks.* |

**A screenshot of a cell phone

Description automatically generated 6. validKYCs**

Input: 0A screenshot of a cell phone

Description automatically generated

**7. addRatingToBank()**

Input : "0x14723a09acff6d2a60dcdf7aa4aff308fddc160c"

**8. addRatingToCustomer()**

Input : "mani"

**9. viewCustomer()**

Input: "mani"A screenshot of a cell phone

Description automatically generated

**10: setCustomerPassword()**

Input : "mani","password"

A screenshot of a cell phone

Description automatically generated

|  |
| --- |
| ***Note :***  *Password can be set only once.*  *If you try setting password again, it will give you error. Password already Set.* |

**11. getBanksRating()**

Input : "0x14723A09ACff6D2A60DcdF7aA4AFf308FDDC160C"A screenshot of a cell phone

Description automatically generated

**12. getCustomerRating()**

Input: "mani"A screenshot of a cell phone

Description automatically generated

**13. removeRequest()**

Input : “mani”

A screenshot of a cell phone

Description automatically generated

**14. removeCustomer()**

Input : “mani”

A screenshot of a cell phone

Description automatically generated

**15. Switch to admin account address**

**A screenshot of a cell phone

Description automatically generated**

**16. removeBank()**

Input : "0x14723A09ACff6D2A60DcdF7aA4AFf308FDDC160C"

A screenshot of a cell phone

Description automatically generated

**List of API’s Completed in KYC contract**

**Bank**

1. addKycRequest(username,bankaddress) - done

2. addCustomer(username,documentHash) - done

3. removeCustomer() - done

4. updateCustomer() - done

5. viewCustomer() - done

6. getBankRequest() - done

7. rateCustomer(uname) - done

8. rateBank(address) - done

9. getCustomerRating(uname) - done

10. getBankRating(address) - done

11. accessHistroy(uname) - done

**Customer**

1. setPassword(username,password) - done

2. viewCustomerData() - done

3. getBankName(address) - done

4. getBankAddress(name) - done

**Admin**

1. addBank(name,address,isAllowed) - done

2. removeBank(address) - done