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**Batch - EL2**

**Course Code & Name – 2CSDE93 & Blockchain Technology**

**Practical – 5**

**Aim :** To perform thorough study and installation of Remix IDE and Truffle IDE for deploying Smart Contracts and Decentralized Applications (dapps) and create and deploy a Smart Contract for any application such as finance, healthcare etc.

**Solidity Code :**

pragma solidity ^0.4.21;

contract AVTax

{

struct Owner

{

string name\_of\_owner;

int tax\_amount;

int have\_amount;

}

mapping(address => Owner) public owners;

function add(string \_name\_of\_owner, int \_have\_amount) public

{

owners[msg.sender] = Owner(\_name\_of\_owner, 0, \_have\_amount);

}

function add\_tax(int x) public {

if(owners[msg.sender].have\_amount >= x)

owners[msg.sender].have\_amount = owners[msg.sender].have\_amount -

x;

else owners[msg.sender].tax\_amount = owners[msg.sender].have\_amount +

x;

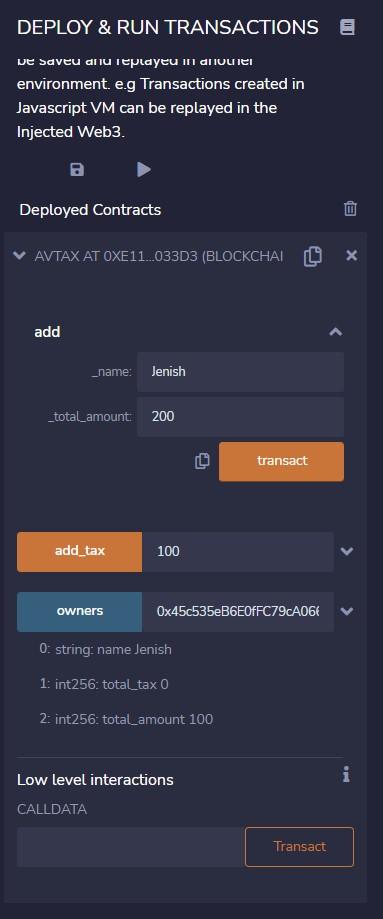
}

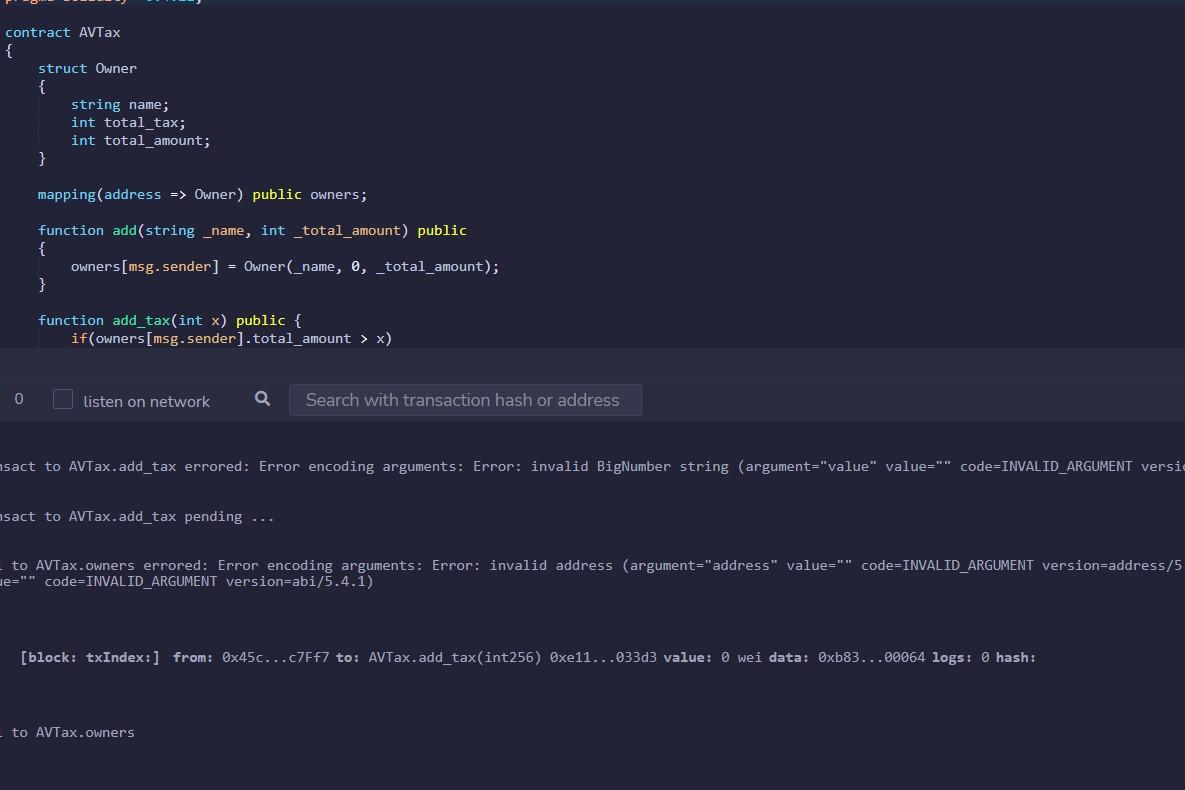
}

**Input and Output:**

I have used remixIDE for compiling the solidity file and then made one person and taken the tax input from user and as a result we will see the updated amount from user.

**ScreenShots**





**Conclusion :**

After completion of this practical, I learnt how to deploy smart contracts using RemixIDE.