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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);
        }
}
```

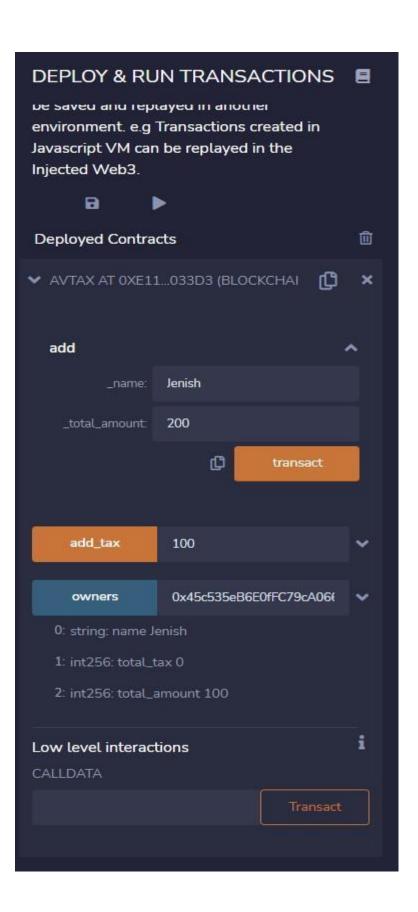
```
function add_tax(int x) public {
  if(owners[msg.sender].have_amount >= x)

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.